Manuscript Type: Article

Title: Expression profiles of Human Endogenous Retrovirus (HERV)-K and HERV-R Env proteins in various cancers

Author's name: Eun-Ji Ko^{1,2}**, Kyoung Seob Song³**, Mee Sun Ock¹, Yung Hyun Choi⁴, SuhkMann Kim⁵, Heui-Soo Kim², and Hee-Jae Cha¹*

Affiliation: ¹Department of Parasitology and Genetics, ³Department of Physiology, Kosin University College of Medicine, Busan ⁴Department of Biochemistry, College of Oriental Medicine, Dongeui University, Busan, ²Department of Biological Sciences, ⁵Department of Chemistry, College of Natural Sciences, Pusan National University, Busan, Republic of Korea

Running Title: Expression patterns of HERV-K and R Env proteins

Keywords: HERV, Env, cancer, expression pattern

Corresponding Author's Information:

- * Correspondence: hcha@kosin.ac.kr; Tel.: 82-51-990-6428.
- ** These authors contributed equally to this work.

Α

В

С



Supplement-Figure. 1 Antibody specificity. Antibody specificity of both anti HERV-K and HERV-R Env antibodies was confirmed by transfection of expression vectors of HERV-K or HERV-R *env* gene.

(A) Western blot analysis of HERV-K and HERV-R Env over-expression in control and transfected cells.

(B) Immunofluorescence and histochemical staining of HERV-K and HERV-R Env over-expression in control and transfected cells.

(C) Cross-reactivity check of both antibodies by Western blot analysis of proteins of HERV-K and HERV-R over-expressing cells.

(D) Cross-reactivity check of both antibodies by Western blot analysis of proteins of HERV-K and HERV-R Knockout cells.



Supplement-Figure. 2 The expression of HERV-K and HERV-R Env proteins in various cancers. HERV-K and HERV-R Env protein expression was analyzed by by Immunofluorescence analysis with tissue microarray slides of breast cancer (A), melanoma (B), liver cancer (C), stomach cancer (D), ovarian cancer (E), kidney cancer (F), prostate cancer (G), cervical cancer (H), esophagus cancer (I), osteosarcoma (J), and colon cancer (K). The empty space is when the tissue is in poor condition and it difficult to achieve adequate results.



Normal

Cancer

Liver Cancer



Stomach Cancer



Ε

Ovarian Cancer



F

Kidney Cancer



Prostate Cancer



Cervical Cancer







Esophagus Cancer

I

Cancer



Colon Cancer



Patients information of Breast cancer-metastasis-normal tissue microarray



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No.	Age	Sex	Organ	Diagnosis	pTNM	Stage	LN*	Tissue type **
1	59	F	Breast	infiltrating duct carcinoma	T2N0M0	II A	0/19	6
2	48	F	Breast	infiltrating duct carcinoma	T2N0M0	II A	0/16	6
3	42	F	Breast	infiltrating duct carcinoma	T2N2aM0	III A	5/19	6
4	37	F	Breast	infiltrating duct carcinoma	T2N2aM0	IIIA	8/8	6
5	37	F	Breast	infiltrating duct carcinoma	T2N0M0	11.4	0/20	6
6	55	F	Breast	infiltrating duct carcinoma	T2N0M0	11.4	0/19	6
7	55	F	Breast	infiltrating duct carcinoma	T3N3aM0	IIIC	20/20	6
8	36	F	Breast	infiltrating duct carcinoma	T3N0M0	IIB	0/14	6
9	52	F	Breast	infiltrating duct carcinoma	T2N2aM0	III A	5/24	6
10	40	F	Breast	infiltrating duct carcinoma	T2N0M0	- II A	0/11	6
11	51	F	Breast	infiltrating duct carcinoma	T2N0M0	11.4	0/8	6
12	55	F	Breast	infiltrating duct carcinoma	T2N0M0	- II A	0/19	6
13	60	F	Breast	infiltrating duct carcinoma	T2N0M0	- II A	0/16	6
14	45	F	Breast	sarcomatoid carcinoma	T2N1aM0	IIB	3/23	6
15	38	F	Breast	infiltrating duct carcinoma	T3N1aM0	AIII	3/13	6
16	53	F	Breast	infiltrating duct carcinoma	T2N1miM0	IIB	3/14	6
17	48	F	Breast	infiltrating duct carcinoma	T2N1miM0	IIB	2/15	6
18	46	F	Breast	intraductal papillary carcinoma	T2N0M0	- II A	0/15	6
19	40	F	Breast	infiltrating duct carcinoma	T3N0M0	IIB	0/10	6
20	51	F	Breast	atypical medullary carcinoma	T2N1aM0	IIB	1/16	6
21	56	F	Breast	infiltrating duct carcinoma	T2N0M0		0/14	6
22	45	F	Breast	metaplastic carcinoma	T2N0M0		0/17	6
23	42	F	Breast	infiltrating duct carcinoma	T2N3aM0	IIIC	12/26	6
24	47	F	Breast	infiltrating duct carcinoma	T2N1miM0	IIB	1/11	6
25	39	F	Breast	infiltrating duct carcinoma	T2N1aM0	IIB	2/17	6
26	51	F	Breast	infiltrating duct carcinoma	T2N1aM0	IIB	1/13	6
27	49	F	Breast	infiltrating duct carcinoma	T2N0M0		0/20	6
28	57	F	Breast	infiltrating duct carcinoma	T3N1aM0	IIIA	3/7	6
29	52	F	Breast	infiltrating duct carcinoma	T2N1aM0	IIB	1/22	6
30	41	F	Breast	infiltrating duct carcinoma	T3N2aM0		7/9	6
31	48	F	Breast	infiltrating duct carcinoma	T2N3aM0		35/35	6
32	34	F	breast	inhitrating duct carcinoma	T2N1aM0	11.0	2/11	6
33	37	P	breast	inhitrating duct carcinoma	12N3aM0	IIIC	22/23	0
34	58	F	Breast	infiltrating duct carcinoma	T2N3aM0		19/22	6
35	37	F	Breast	infiltrating duct carcinoma	T2N3aM0		17/19	6
36	66	F	Breast	infiltrating duct carcinoma	T2N2aM0		4/11	6
3/	51	F	breast	inhitrating duct carcinoma	T2N1aM0	11.8	3/16	0
38	41	P	breast	inhitrating duct carcinoma	12N3aM0	IIIC	15/21	0
39	56	F	Breast	infiltrating duct carcinoma	T3N2aM0	AIII	5/13	6
40	47	F	Breast	infiltrating duct carcinoma	T3N3aM0	IIIC	11/13	6
41	48	F	Lymph node	metastatic carcinoma from #31	•		•	6
42	34	-	Lymph node	metastatic carcinoma from #32	•		•	0
43	3/		Lymph node	metastatic carcinoma from #33	•		•	0
44	58	F	Lymph node	metastatic carcinoma from #34	•		•	6
45	3/	-	Lymph node	metastatic carcinoma from #35			•	0
40	00	-	Lymph node	metastatic carcinoma from #36			•	0
4/	51	-	Lymph node	metastatic carcinoma from #37	•		•	0
10	91	F	Lymph node	metastatic carcinoma from #38	•		•	6
49	30	-	Lymph node	metastatic carcinoma from #39	•		•	0
50	4/	-	Lymph node	metastatic carcinoma from #40			•	0
51	37	E C	Bread	normal (match to #31)			•	3
52	40	F	Breast	normal (match to #31)	•		•	3
53	30	F	Breast	normal (match to #10)	•		•	3
54	40	-	Dreast	normal (match to #10)	•		•	3
55	51	1	breast	normal (match to #11)			•	3
50	55	-	Breast	normal (match to #12)			•	3
5/	60	-	Dreast	normal (match to #13)			•	5
56	27	F	Breast	normal (match to #34)	•		•	3
09	37	F	Contract	normai (match to #35)	•		•	3
1 000								

CBA4 Human, Breast cancer-metastasis-normal

TNM and stage : AJCC Cancer Staging Manual (7th Edition) * LN, positive lymph nodes / examined lymph nodes 51-60: Non-neoplastic breast tissue in breast cancer patients. **Tissue type: See General information sheet Supplementary data sheet contains ER, PR, p53, C-erbB2, histologic grade, tumor size and survival data (available by web)

SUPER BIO CHIPS

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CBA4 Supplementary data

No	ED*	PD*	n53	C-erbB2	Histologic	Tumor size	Follow-up	Follow-up	Cause of	Pemark
110.	ER.	FK-	p35	C-EIDD2	grade**	Tullior size	months	result	death	Kelliark
1	+	+	+	-	=	3.0 cm	84	alive		
2	-	+	-	-	11	3.5 cm	84	alive		
3	-	+	-	-		4.2 cm	84	alive		
4	+	-	-	+		3.0 cm	34	dead	cancer	
5	-	_	_	-		2.5 cm	84	aliva	Cancer	
5	-	-	-	_		2.5 cm	07	alive		•
0	+	-	+	-		2.5 Cm	83	aive		•
/	+	-	+	-		10.0 cm	57	dead	cancer	•
8	-	-	-	-		6.0 cm	82	alive		
9	-	-	+	-		2.5 cm	82	alive		
10	-	-	+	-	11	4.5 cm	82	alive		
11	-	-	-	+		2.5 cm	82	alive		
12	+	+	-	-		3.0 cm	80	alive		
13	-	-	+	-		2.5 cm	79	alive		
14	_	-		+		5.0 cm	38	beeb	cancer	
15	-	-	-			5.2 cm	70	aliva	Cancer	
15	- -	-	-	-		3.2 cm	79	aive	•	•
10	+	+	-	-		2.2 Cm	/8	aive	•	•
17	-	+	-	-		2.5 cm	78	alive		
18	+	+	-	-	uk	4.5 cm	77	alive		
19	-	-	+	-		5.5 cm	77	alive		
20	-	-	-	-	uk	2.5 cm	77	alive		
21	+	+	+	-		4.5 cm	77	alive		
22	-	-	-	-	uk	3.5 cm	77	alive		
22		4			- UL	3.0 cm	76	alko		
20	Ŧ	-	-	-		3.0 cm	70	dive	•	•
24	-	+	+	+		3.0 cm	/6	alive	•	•
25	-	-	+	+		2.5 cm	76	alive		
26	+	+	-	+		4.0 cm	76	alive		
27	+	-	+	-	=	2.5 cm	78	alive		
28	+	-	-	-	11	5.5 cm	75	alive		
29	-	-	-	-		5.0 cm	75	alive		
30	-	-	_	+		10.0 cm	50	beeb	cancer	
30	_	_	-			25.00	33	dead	cancer	
31	-	-	-	-		3.0 cm		ueau	Cancer	•
32	-	-	-	-		3.0 cm	82	alive	•	•
33	-	-	+	-		2.5 cm	81	alive		
34	-	-	+	+		3.5 cm	9	dead	cancer	
35	-	-	-	+		4.5 cm	78	alive		
36	-	-	-	-		5.0 cm	75	alive		
37	-	-	+	-		3.0 cm	73	alive		
38	-	-	_	+		3.5 cm	72	alive		
20	_			+		5.0 cm	72	allvo		•
29	-	-	+	+		6.0 Cm	12	aive	•	•
40	-	-	+	-		10.0 cm	33	dead	cancer	
41	-	-	+	-						
42	-	-	-	-						
43	-	-	+	-						
44	-	-	+	+						
45	-	-	-	+						
46	_	-	_							
10	-	-	-	-	•		•	•	•	•
4/	-	-	+	-						
48	-	-	-	+						•
49	-	-	+	+						
50	-	-	+	-						
51										
52										
52	-									
55		•	•							•
34		•	•	•			•	•	•	•
55			•							
56										
57										
58										
59			-		-	-	-			
60										

*ER, estrogen receptor; PR, progesteron receptor; p53; C-erbB2; immunohistochemistry; uk, unknown **Histologic grade, Nottingham modification of Bloom-Richard system Patients information of Breast cancer-normal tissue microarray



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No.	Age	Sex	Organ	Diagnosis	рТММ	Stage	LN*	C-erbB2	Tissue type**
1 2	28	F	Breast	infiltrating duct carcinoma	T3N3aM1	IV	12/15	-	6
3	47	F	Breast	infiltrating duct carcinoma	T2N2aM0	IIIA	5/22	-	6
5	39	F	Breast	infiltrating duct carcinoma	T2N0M0	IIA	0/16	-	6
7	48	F	Breast	infiltrating duct carcinoma	T2N2aM0	IIIA	5/22	-	6
9 10	60	F	Breast	infiltrating duct carcinoma	T2N0M0	IIA	0/9	+	6
11 12	54	F	Breast	infiltrating duct carcinoma	T3N1aM1	IV	1/16	+	6
13	43	F	Breast	infiltrating duct carcinoma	T3N0M0	ШB	0/9	+	6
15	42	F	Breast	infiltrating duct carcinoma	T2N2aM0	IIIA	5/19	-	6
17	40	F	Breast	infiltrating duct carcinoma	T2N3aM0	IIIC	18/21	-	6
19	41	F	Breast	infiltrating duct carcinoma	T2N1aM0	ШB	2/18	-	6
21	57	F	Breast	infiltrating duct carcinoma	T2N3aM0	шс	15/24	-	6
23 24	44	F	Breast	infiltrating duct carcinoma	T2N3aM0	IIIC	28/28	+	6
25	84	F	Breast	infiltrating duct carcinoma	T2N0M0	II A	0/18	-	6
27	52	F	Breast	infiltrating duct carcinoma	T2N1aM0	ШB	1/14	-	6
29	40	F	Breast	infiltrating duct carcinoma	T2N0M0	IIA	0/10	-	6
31	28	F	Breast	normal (match to #1 and #2)					3
33	47	F	Breast	normal (match to #3 and #4)					3
35	39	F	Breast	normal (match to #5 and #6)					3
37	48	F	Breast	normal (match to #7 and #8)					3
39	60	F	Breast	normal (match to #9 and #10)					3
41 42	54	F	Breast	normal (match to #11 and #12)					3
43	43	F	Breast	normal (match to #13 and #14)					3
45	42	F	Breast	normal (match to #15 and #16)					3
47	40	F	Breast	normal (match to #17 and #18)					3
49	41	F	Breast	normal (match to #19 and #20)					3
51	57	F	Breast	normal (match to #21 and #22)					3
53	44	F	Breast	normal (match to #23 and #24)					3
55	84	F	Breast	normal (match to #25 and #26)					3
57	52	F	Breast	normal (match to #27 and #28)					3
59	40	F	Breast	normal (match to #29 and #30)					3

CBB3 Human, Breast cancer-normal

TNM and Stage: AJCC Cancer Staging Manual (7th Edition) * LN, metastatic lymph nodes / examined lymph nodes **Tissue type: see General information sheet Supplementary data sheet contains ER, PR, pS3, histologic grade, tumor size and survival data (available by web)

Patients information of melanoma tissue microarray



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CK2 Human, Malignant melanoma

No.	Age	Sex	Organ	Diagnosis	Tissue type
1	37	F	Skin, toe	malignant melanoma	6
2	53	M	Skin, hip	malignant melanoma	6
3	43	Μ	Eyeball (1.0 cm)	malignant melanoma	6
4	65	F	Skin, sole	malignant melanoma	6
5	47	M	Skin, hand	malignant melanoma	6
6	25	F	Skin, neck	malignant melanoma	6
7	20	M	Skin, elbow	malignant melanoma	6
8	20	F	Skin, trunk	malignant melanoma	6
9	73	F	Skin, abdomen	malignant melanoma	6
10	66	Μ	Soft tissue, axilla	malignant melanoma	6
11	43	Μ	Skin, heel	malignant melanoma	6
12	56	Μ	Soft tissue, popliteal	malignant melanoma	6
13	33	F	Skin, buttock	malignant melanoma	6
14	19	Μ	Skin, axilla	malignant melanoma	6
15	55	Μ	Lung	metastatic malignant melanoma	6
16	63	Μ	Anus	malignant melanoma	6
17	63	F	Lymph node, axilla	metastatic malignant melanoma	6
18	59	Μ	Lung	metastatic malignant melanoma	6
19	77	M	Anus	malignant melanoma	6
20	36	F	Soft tissue, leq	malignant melanoma	6
21	47	M	Soft tissue, axilla	malignant melanoma soft tissue	6
22	35	F	Lymph node, inquinal	metastatic malignant melanoma	6
23	59	F	Nasal cavity	malignant melanoma	6
24	36	F	Lymph node, inguinal	metastatic malignant melanoma	6
25	65	M	Lymph node	metastatic melanoma	6
26	62	F	Skin, forearm	malignant melanoma	6
27	47	M	Lymph node	metastatic malignant melanoma	6
28	5/	F	Lymph node, inguinal	metastatic malignant melanoma	6
29	68	M	Skin, leg	nodular malignant melanoma	6
- 30	40	M	Soft tissue, inguinai	malignant melanoma	6
32	76	M	Skin, avilla	malignant melanoma	6
33	49	M	Rectum	malignant melanoma	6
*34	54	F	Skin, scaln	malignant melanoma	6
35	59	M	Skin, back	malignant melanoma	6
36	34	F	Skin, axilla	malignant melanoma	6
*37	60	М	Femur	metastatic carcinoma	6
38	62	F	Lymph node, inquinal	metastatic malignant melanoma	6
39	80	M	Skin, big toe	malignant melanoma	6
40	34	M	Eyeball (1.0 cm)	malignant melanoma	6
41	63	M	Skin, lower leg	malignant melanoma	6
*42	74	F	Skin, face	malignant melanoma	6
43	56	M	Skin, foot	malignant melanoma	6
44	65	M	Eyeball (1.7cm)	malignant melanoma	6
45	66	F	Lymph node, inguinal	metastatic malignant melanoma	6
46	53	M	Eyeball (1.8cm)	malignant melanoma	6
47	70	F	Skin, face	malignant melanoma	6
48	4/	M	Lymph node	metastatic malignant melanoma	6
49	38	F	Kectum Nacional Anticia	maiignant melanoma	6
50	61	m F	Ivasal Cavity	maignant melanoma	6
51	42	M	Cymph node	metastatic malignant melanoma	6
52	41	M	Skin, forearm Skin, thigh	malignant melanoma	6
55	71	M	Lymph node	metastatic malignant melanoma	6
55	61	M	Maxilla	malignant melanoma	6
56	70	M	Maxilla	malignant melanoma	6
57	39	F	Small bowel	metastatic malignant melanoma	6
58	74	M	Skin, inguinal	malignant melanomas	6
59	55	M	Skin, sole	malignant melanoma	6
60			Calar		

30*: Definite diagnosis in question. possibility of paraganglioma 34*: Undifferentiated carcinoma is considered as an alternative diagnosis 37*: Initial diagnosis was malignant melanoma. The diagnosis was revised as metastatic carcinoma 42*: malignant melanoma with osteocartilagenous differentiation



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Follow-up Follow-up Cause of No. Remark months result death 144 1 alive 2 3 5 139 dead cancer alive 4 dead 124 cancer 5 34 dead cancer 6 dead alive 4 cancer 130 8 9 28 8 dead cancer dead unknown 10 4 dead cancer . 11 12 13 14 15 2 dead cancer 18 dead cancer 36 120 dead cancer alive 114 alive 16 17 18 17 42 dead cancer dead dead cancer 13 cancer 24 13 19 20 21 22 23 24 25 26 dead cancer dead cancer 22 16 dead dead cancer cancer 26 dead cancer 5 27 94 dead cancer dead tetanus . alive 27 22 dead cancer 28 29 *30 3 dead cancer 18 dead cancer 91 alive 31 32 33 *34 35 dead cancer 4 3 87 dead liver cirrhosis . alive 0 dead cancer 34 74 dead cancer 36 *37 38 alive 1 71 dead cancer alive 39 40 25 70 dead cancer alive 41 *42 43 6 dead cancer . 68 67 alive alive 44 25 dead cancer 45 65 alive . 46 52 dead cancer 47 64 alive 48 49 21 8 dead dead cancer cancer . 50 19 dead cancer 51 52 53 6 dead cancer dead dead 1 17 cancer cancer 54 55 56 57 41 alive 12 10 dead cancer dead dead cancer 8 cancer 58 5 dead cancer 59 60 6 dead cancer

CK2 Supplementary data

Patients information of liver cancer tissue microarray



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CS4 Human, Liver cancer

No.	Age	Sex	Organ	Diagnosis	pTNM	Stage	No. of CSN4#	Tissue type*
1	53	F	Skin	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
2	57	M	Liver	hepatocellular carcinoma	T3aN0M0	III A	104	6
3	41	M	Liver	hepatocellular carcinoma	T3aN0M0	III A		6
4	45	M	Skin	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
5	54	F	Chest wall	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
6	40	M	Lumbar vertebra	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
7	52	M	Liver	hepatocellular carcinoma	T3aN0M0	IIIA	112	6
8	43	M	Bile duct	hepatocellular carcinoma	T4NxM0	III C		6
9	51	M	Colon	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
10	49	M	Bile duct	hepatocellular carcinoma	T4NxM0	III C		6
11	56	M	Liver	hepatocellular carcinoma	T1N0M0	1		6
12	56	F	Lung	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
13	40	M	Lymph node	metastatic hepatocellular carcinoma	T3aN1M0	IVA		6
14	37	M	Liver	hepatocellular carcinoma	T4NxM1	IVB	131	6
15	75	M	Liver	hepatocellular carcinoma	T2N0M0	- 11	132	6
16	37	M	Neck	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
17	32	M	Liver	combined hepatocellular carcinoma & cholangiocarcinoma	T3aN0M0	III A	133	6
18	50	M	Femur	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
19	57	M	Liver	hepatocellular carcinoma	T3aN0M0	III A	134	6
20	62	M	Lung	metastatic hepatocellular carcinoma	TxNxM1	IVB	1.1	6
21	61	M	Lung	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
22	65	M	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1	135	6
23	64	M	Liver	hepatocellular carcinoma, moderately differentiated	тзымомо	IIIB		6
24	65	M	Liver	hepatocellular carcinoma, poorly differentiated	T3aN0M0	III A	137	6
25	72	M	Liver	hepatocellular carcinoma, well differentiated & poorly differentiated	T2N0M0	- 11	138	6
26	58	F	Liver	hepatocellular carcinoma, well differentiated	T2N0M0	11	139	6
27	52	M	Liver	hepatocellular carcinoma, well differentiated	T2N0M0	11	140	6
28	40	M	Liver	hepatocellular carcinoma, moderately differentiated	T2N0M0	- 11	141	6
29	53	F	Liver	hepatocellular carcinoma, moderately differentiated	тзымомо	IIIB	142	6
30	67	M	Liver	hepatocellular carcinoma, moderately differentiated	T2N0M0	- 11	143	6
- 31	58	F	Liver	hepatocellular carcinoma, moderately differentiated	T3aN0M0	III A		6
32	20	M	Liver	hepatocellular carcinoma, well differentiated	T4N0M0	III C		6
- 33	48	M	Liver	hepatocellular carcinoma, moderately differentiated	T2N0M0	- 11		6
34	47	M	Liver	hepatocellular carcinoma	T1N0M0	1	144	6
35	35	M	Omentum	metastatic hepatocellular carcinoma	TxNxM1	IV		6
36	69	F	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1		6
37	46	M	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1		6
38	63	F	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1	146	6
39	60	F	Liver	hepatocellular carcinoma, poorly differentiated	T1N0M0	1	147	6
40	62	M	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1	148	6
41	52	M	Liver	hepatocellular carcinoma, moderately differentiated	T2N0M0	- 11		6
42	66	F	Liver	hepatocellular carcinoma, moderately differentiated	T2N0M0	- 11	149	6
43	65	F	Liver	hepatocellular carcinoma, well differentiated	T1N0M0	1	150	6
44	64	M	Liver	hepatocellular carcinoma, moderately differentiated	T3bN0M0	III B		6
45	59	M	Liver	hepatocellular carcinoma, poorly differentiated	тзымомо	III B		6
46	64	M	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1	151	6
47	54	M	Liver	hepatocellular carcinoma, moderately differentiated	T3PN0W0	ШB	152	6
48	65	F	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1	153	6
49	60	M	Adrenal gland	metastatic hepatocellular carcinoma	TxNxM1	IVB		6
50	44	M	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1		6
51	41	M	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1		6
52	51	M	Liver	hepatocellular carcinoma	T1N0M0	1	154	6
53	55	M	Liver	hepatocellular carcinoma, well differentiated	T1N0M0	1		6
- 54	57	F	Liver	hepatocellular carcinoma, well differentiated	T1N0M0	1	156	6
- 55	57	M	Liver	hepatocellular carcinoma, moderately differentiated	T3PN0W0	III B	157	6
56	43	M	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1		6
57	50	M	Liver	hepatocellular carcinoma, poorly differentiated	T1N0M0	1	158	6
58	43	M	Liver	hepatocellular carcinoma, moderately differentiated	T1N0M0	1	159	6
59	60	F	Liver	hepatocellular carcinoma, poorly differentiated	T4N0M0	ШC		6
60			Carbon					

TNM and Stage: AJCC Cancer Staging Manual (7th Edition) Tissue type*: see General information sheet Supplementary data sheet contains survival data (available by web)



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	Follow-up	Follow-up		
No.	months	result	Cause of death	Remark
1	14	dead	cancer	
2	95	alive		
3	30	dead	cancer	
4	9	dead	cancer	
5	3	dead	cancer	
6	47	dead	cancer	
7	41	dead	cancer	
8	4	dead	cancer	
9	32	dead	cancer	
10	67	alive		
11	18	dead	cancer	
12	18	dead	unknown	
13	3	dead	cancer	
14	92	dead	cancer	
15	67	alive		
16	35	dead	cancer	
17	66	alive		
18	47	dead	cancer	
19	66	alive		
20	22	dead	cancer	
21	39	dead	cancer	
22	65	alive		
23	65	alive		
24	64	alive		
25	64	alive		
26	64	alive		
27	63	alive		
28	63	alive		
29	63	alive		
30	54	alive		
31	31	dead	cancer	
32	28	dead	cancer	
33	47	alive		
34	44	alive		
35	28	dead	cancer	
36	3	dead	cancer	
37	11	dead	cancer	
38	10	dead	cancer	
39	55	alive		
40	1	dead	cancer	
41	2	dead	cancer	
42	71	alive		
43	29	dead	cancer	
44	16	dead	cancer	
45	6	dead	cancer	
46	3	dead	cancer	
4/	6	dead	cancer	
48	10	dead	cancer	
49	39	diive		
50	1	0ea0	caricer	
51				
52				
53				
54				
55				
50				
5/				
50				
59				
00				

CSA4 Supplementary data

Patients information of Stomach cancerr tissue microarray



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CQ2 Human, Stomach cancer

No.	Age	Sex	Organ	Diagnosis	pTNM	Stage	No. of CQN2*	Tissue type ^{**}
1	40	Μ	Stomach	adenocarcinoma, poorly differentiated	T4aN3aM1	IV	101	6
2	43	F	Stomach	adenocarcinoma, poorly differentiated	T4aN0M0	IIВ	102	6
3	61	F	Stomach	adenocarcinoma, moderately differentiated	T3N3aM0	ШB	103	6
4	45	F	Stomach	signet ring cell carcinoma	T3N3aM0	ШB	104	6
5	67	M	Stomach	adenocarcinoma, poorly differentiated	T3N1M0	ПB	105	6
6	53	F	Stomach	adenocarcinoma, poorly differentiated	T3N3aM0	ШB	106	6
7	67	M	Stomach	adenocarcinoma, moderately differentiated	T4aN3bM0	IIIO	107	6
8	72	M	Stomach	adenocarcinoma, poorly differentiated	T3N3aM0	IIIB	108	6
9	61	M	Stomach	mucinous adenocarcinoma	T15N2M0	IIA	109	6
10	65	M	Stomach	adenocarcinoma, poorly differentiated	14aN0M0	IIB	110	6
11	70	M	Stomach	adenocarcinoma, moderately differentiated	T4aN2M0	IIIB	111	6
12	62	M	Stomach	adenocarcinoma, well differentiated	13N2M0	AIII	112	6
13	62	-	Stomach	signet ring cell carcinoma	13N2M0		113	6
19	52	M	Stomach	papiliary adenocarcinoma	T2N0M0	I B	114	6
15	60	M	Stomach	adenocarcinoma, poorly differentiated	T3N3aM1	IV	115	6
10	41	M	Stomach	adenocarcinoma, poorly differentiated	T2N2-M0	III C	115	6
10	41	m	Stomach	signet ring cell carcinoma	TONDaMU TOND-MO		11/	6
10	60	F M	Stomach	adenocarcinoma, poorly differentiated	Tanaamu	IIIB	110	6
20	62	M	Stomach	adenocarcinoma, poorly differentiated	T2N26M0		115	6
20	49	M	Stomach	adenocarcinoma, poorly differentiated	Tabalaho	1110	120	6
22	64	M	Stomach	musingue adenocarcingma	T2N1M0	110	122	6
22	55	M	Stomach	undifferentiated carcinoma	T4-N3bM0	110	122	6
24	56	F	Stomach	adenocarcinoma, noorly differentiated	T3N2M0		123	6
25	48	M	Stomach	adenocarcinoma, poorly differentiated	T3N2M0	111.0	125	6
26	65	F	Stomach	mucinous adenocarcinoma	T4aN3aM0	110	126	6
27	63	M	Stomach	adenocarcinoma, well differentiated	T3N2M0		127	6
28	60	M	Stomach	adenocarcinoma, well differentiated	T3N0M0	IIA	128	6
29	42	M	Stomach	signet ring cell carcinoma	T3N1M0	IIB	129	6
30	55	M	Stomach	mucinous adenocarcinoma	T3N3aM0	IIIB	130	6
31	58	Μ	Stomach	adenocarcinoma, moderately differentiated	T3N3bM0	ШB	131	6
32	72	F	Stomach	adenocarcinoma, moderately differentiated	T1bN2M0	IIA		6
33	53	Μ	Stomach	adenocarcinoma, poorly differentiated	T3N0M0	IIA	133	6
- 34	46	Μ	Stomach	adenocarcinoma, poorly differentiated	T4bN0M0	ШB	134	6
35	64	Μ	Stomach	adenocarcinoma, moderately differentiated	T2N1M0	II A	135	6
36	65	Μ	Stomach	adenocarcinoma, poorly differentiated	T2N1M0	II A	136	6
37	45	F	Stomach	adenocarcinoma, poorly differentiated	T2N1M0	IIA	137	6
38	58	F	Stomach	adenocarcinoma, well differentiated	T3N0M0	II A	138	6
39	68	F	Stomach	adenocarcinoma, poorly differentiated	T3N3aM1	IV	139	6
40	66	M	Stomach	adenocarcinoma, poorly differentiated	T4aN3aM0	IIIO	140	6
41	63	Μ	Stomach	adenocarcinoma, poorly differentiated	T3N0M0	IIA	141	6
42	52	F	Stomach	adenocarcinoma, moderately differentiated	T3N2M0	IIIA	142	6
43	35	F	Stomach	adenocarcinoma, poorly differentiated	T1aN0M0	IA	143	6
44	44	F	Stomach	adenocarcinoma, well differentiated	T1bN0M0	IA	144	6
45	55	M	Stomach	adenocarcinoma, well differentiated	T1aN0M0		145	6
46	40	M	Stomach	signet ring cell carcinoma	TILLIONO	IA	146	6
4/	66	M	Stomach	adenocarcinoma, moderately differentiated	T15N0M0	IA	14/	6
48	65	-	Stomach	adenocarcinoma, moderately differentiated	TIDNUMU		148	6
49	62		Stomach	adenocarcinoma, poony differentiated	T15N0M0		149	6
50	70		Chonside	adenocarcinoma, moderately differentiated	TILMIMO		151	6
51	70	M	Stomach	adenocarcinoma, moderatery differentiated	T15N0M0	1.0	151	6
52	40	M	Stomach	signet ring cell carcinoma	T1bN1M0		152	6
54	34	F	Stomach	signet ring cell carcinoma	T1aN1M0	IB	155	6
55	60	M	Stomach	adenocarrinoma, well differentiated	T1bN0M0	14	155	6
56	68	M	Stomach	adenocarcinoma, well differentiated	T1bN1M0	1 B	156	6
57	52	M	Stomach	adenocarcinoma, well differentiated	T2N0M0	I B	157	6
58	62	M	Stomach	signet ring cell carcinoma	TlaN0M0	IA	158	6
59	60	M	Stomach	adenocarcinoma, well differentiated	T2N0M0	1B	159	6
60			Carbon					

The normal tissue in CQN2 array of this column is from the identical patient. TNM and Stage: AJCC Cancer Staging Manual (7th Edition) ** Tissue type: see General information sheet Supplementary data sheet contains Lauren, survival data (available by web)



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CQ2 Supplementary data

No	Lauren*	Follow-up	Follow-up	Cause of death	Remark
	cauren	months	result	cause of death	INCHIGH N
1	D	4	dead	cancer	
2	U T	132	dead	cancer.	
4		132	alive	Caricer	
5	D	100	dead	chronic renal failure	
6	D	16	dead	cancer	
7	I	13	dead	cancer	
8	D	1	dead	liver cirrhosis	
9	I	123	dead	pneumonia	
10	D	131	alive		
11	I	9	dead	cancer.	
12	1	45	dead	cancer	
13	D	26	dead	cancer	
15	1	151	dead		
16	D	6	dead	cancer	
17	D	131	alive		
18	D	131	alive		
19	D	36	dead	cancer	
20	D	41	dead	cancer	
21	D	4	dead	cancer	
22	I	83	alive		
23	D	7	dead	cancer	
24	D	36	dead	cancer	
25	D	10	dead	cancer:	
26	D	15	dead	cancer	
27	I	130	alive		
28	1	101	dead	cancer	
29	U	130	dead	cancer.	
30	· ·	10	dead	cancer	
32	i	15	dead	cancer	
33	D	130	alive		
34	D	7	dead	cancer	
35	I	130	alive		
36	D	68	dead	cancer	
37	D	129	alive	100 C	
38	I	2	dead	cancer	
39	D	5	dead	cancer	
40	D	6	dead	cancer	
41	D	81	dead	cancer	
42	1	11	Dead	cancer	
43	1	132	alive		
45	I	132	aive		
46	D	131	alive		
47	I	131	alive		
48	Î	3	dead	chronic renal failure	
49	D	130	alive		
50	I	130	alive		
51	I	130	alive		
52	I	130	alive		
53	D	130	alive		
54	D	130	alive		
55	I	130	alive		
56	1	129	alive		
5/	1	129	alive		
58	U I	00	dead	cancer.	
60	4	35	ueau	CarlCer	

* Lauren classification: D, diffuse; I, intestinal

Patients information of Ovary cancer tissue microarray



118-88 Yongdu-dong, Seoul 130-820, Korea Tel +82 2 3676 8270 Fax +82 2 3676 8269 www.tissue-array.com info@tissue-array.com

CJ2 Human, Ovary cancer

No.	Age	Sex	Organ	Diagnosis	рТММ	Stage	Tissue type*
1	65	F	Ovary	serous papillary cystadenoma of borderline malignancy	T1aN0M0	A	5
2	26	F	Ovary	mucinous cystadenoma of borderline malignancy	T1aN0M0	A I	5
3	35	F	Ovary	serous papillary cystadenoma of borderline malignancy	T1aN0M0	A I	5
4	65	F	Ovary	serous cystadenocarcinoma	T2bN0M0	IIB	6
5	48	F	Ovary	endometrioid carcinoma	T2bN0M0	IIB	6
6	44	F	Ovary	granulosa cell tumor	T1aN0M0	A I	5
7	49	F	Ovary	endometrioid carcinoma	T2bN0M0	IIB	6
8	67	F	Ovary	mucinous cystadenoma of borderline malignancy	T2bN0M0	IIB	5
9	75	F	Ovary	serous cystadenofibroma	T1aN0M0	A I	4
10	50	F	Ovary	papillary serous cystadenocarcinoma, poorly differentiated	T2cN0M0	IIC	6
11	44	F	Ovary	fibroma	T1aN0M0	I A	4
12	50	F	Ovary	papillary serous cystadenocarcinoma	T3cN0M1	IV	6
13	47	F	Ovary	endometrioid carcinoma	T3cN0M1	IV	6
14	38	F	Ovary	mixed Brenner tumor and mucinous cystadenoma	T1aN0M0	I A	4
15	58	F	Ovary	papillary serous cystadenocarcinoma	T2bN0M0	IIB	6
16	70	F	Ovary	papillary serous cystadenocarcinoma	T3bN0M0	IIIB	6
1/	65	ŀ	Ovary	struma ovarii	TIaNOMO	IA	4
18	79	F	Ovary	endometrioid adenoacanthofibroma	T1aN0M0	I A	4
19	57	1	Ovary	serous surface papillary carcinoma	T2bN0M0	IIB	6
20	43	F	Ovary	papillary serous cystadenocarcinoma	T35N0M0	IIIB	6
21	68	F	Ovary	undifferentiated carcinoma	T15N0M0	I B	6
22	50	F	Ovary	dear cell carcinoma	T1aN0M0	I A	6
23	23	1	Ovary	dysgerminoma	T25N0M0	11.8	6
24	51	r	Ovary	common epithelial carcinoma, poorly differentiated	120N0M0	IIB	0
25	70	-	Ovary	malignant muellerian mixed tumor	T1aN0M0		6
20	21	P	Ovary	dysgerminoma	TIaNOMO		0
27	34	F	Ovary	fibrothecoma	T1aN0M0	I A	4
28	61	F	Ovary	papillary serous cystadenocarcinoma	T35N0M0	IIIB	6
29	54	P	Ovary	sertoli-leydig cell tumor	TIDNUMU	IB	4
30	53	F	Ovary	fibrothecoma	T1aN0M0		4
31	24	r	Ovary	norothecoma	TIANUMU		4
32	34	-	Ovary	papillary serous cystadenocarcinoma	T20N0M0	11.0	6
33	51	-	Ovary	oysgerminoma	12CN0M0	110	0
34	51	r	Ovary	papiliary serous cystadenocarcinoma	T20N1M0	III C	0
35	24	r 5	Ovary	granulosa-theca cell tumor	T1aN0M0		5
30	24	-	Ovary	serton-leydig cell tumor	TISNOMO		-
3/	41	-	Overy	deex cell cardinama	Tahomo		
30	71	-	Ovary	clear cell carcinoma	T20N0M0	10	6
40	20	F	Ovary	dear cell cardinoma	TIaNOMO		6
41	37	-	Ovary	ordar cer carcinoma	Tanono	10	6
42	2/	F	Overy	empryonal carcinoma	T1=N0M0		0
43	23	F	Overv	discontrational designment of the second s	T1aN0M0		6
44	64	F	Ovary	oysgemmonia nanillanu centus custadenosarcinoma	T2cN1M0		5
45	43	F	Overv	matactatic adapticationa (most likely from breast)	M1	IV	6
46	49	F	Ovary	malionant hmohoma	114	11	6
47	50	F	Ovary	adenoratrinoma from saloiny	T25N0M0	##	6
48	25	F	Overv	Rivitharima	TIaNOMO	1.4	4
40	45	F	Ovary	metastatic undifferentiated carcinoma	MI	IV	6
50	37	F	Ovary	metastatic signet ring carcinoma from stomach	M1	IV	6
51	55	F	Ovary	serous custadencearcinoma, moderately, differentiated	T35N0M0	IIIB	6
52	55	F	Ovary	fibrothecoma	TIaNOMO		4
53	45	F	Ovary	serous custadenocarcinoma, moderately, differentiated	T2cN0M0	10	6
54	37	F	Ovary	endometrioid carcinoma	T2bN0M0	IIB	6
55	58	F	Ovary	firmheroma	TIaNOMO	14	4
56	65	F	Ovary	adenocarcinoma, poorly differentiated	T3:N0M0		6
57	39	F	Ovary	clear cell carcinoma	T2cN1M0	IIIC	6
58	70	F	Ovary	fibroma	TIaNOMO		4
59	58	F	Ovary	clear cell carcinoma	TIaNOMO		6
60			Carbon				
					-		-

TNM and Stage: AJCC Cancer Staging Manual (7th Edition) Tissue type*: see General information sheet Supplementary data sheet contains survival data (available by web)



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CJ2 Supplementary data

No	SNOMED	Follow-up	Follow-up	Cause of death	Pomark
NO.	SNUMED	months	result	Cause of deaut	Reliark
1	M84601	0	lost		
2	M84701	0	lost		
3	M84601	0	lost	1 A A A A A A A A A A A A A A A A A A A	
4	M84603	125	dead	cancer	
5	M83803	0	lost		
6	M86201	187	alive		
7	M83803	72	dead	cancer	
8	M84701	160	dead	fracture of femur	
9	M90140	78	dead	cancer	
10	M84603	5	lost		
11	M88100	183	alive		
12	M84603	153	dead	cancer	
13	M83803	83	dead	cancer	
14	M90000	2	lost		
15	M84603	42	dead	cancer	
16	M84603	26	dead	unknown	
17	M90900	180	alive		
18	M83810	156	dead	unknown	
19	M84613	16	lost		
20	M84603	48	dead	cancer	
21	M80203	164	dead	cerebral infarction	
22	M83103	30	dead	cancer	
23	M90603	6	lost		
24	M80203	174	alive		
25	M89503	174	alive		
26	M90603	174	alive		
27	M86000	173	alive		
28	M84603	172	alive		
29	M86310	82	dead	cancer	
30	M86000	172	alive		
31	M86000	170	alive		
32	M84603	21	dead	cancer	
33	M90603	0	lost	1 A A A A A A A A A A A A A A A A A A A	
34	M84603	5	lost		
35	M86211	136	dead	cancer	
36	M86310	0	lost		
37	M85901	0	lost		
38	M83103	161	alive	1 A A A A A A A A A A A A A A A A A A A	
39	M89503	18	dead	cancer	
40	M83103	159	alive		
41	M90703	14	dead	cancer	
42	M86201	157	alive		
43	M90603	150	alive		
44	M84601	34	dead	cancer	
45	M81406	141	alive		
46	M95903	133	alive		
47	M81406	136	alive		
48	M86000	135	alive		
49	M80206	135	alive		
50	M84906	134	alive		
51	M84603	45	dead	cancer	
52	M86000	48	alive		
53	M84603	47	alive		
54	M83803	47	alive		
55	M86000	45	alive		
56	M80203	45	alive		
57	M83103	45	alive		
58	M88100	45	alive		
59	M83103	44	alive		
60					
-	-	-		-	

Patients information of kidney cancerr tissue microarray



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CL2 Human, Kidney cancer

No.	Age	Se	Organ	Diagnosis	TNM	Tissue
	-	x			-	type*
1	52	F	Kidney	renal cell carcinoma, granular cell type	T2bNXM0	6
2	60	F	Kidney	renal cell carcinoma, clear cell type	T3aN0M1*	6
3	42	M	Kidney	renal cell carcinoma, dear cell type	T3aN0M0	6
4	59	M	Kidney	renal cell carcinoma, clear cell type	T2aN0M0	6
5	67	F	Kidney	renal cell carcinoma, clear cell and granular cell type	T2aNXM0	6
6	65	M	Kidney	renal cell carcinoma, clear cell and granular cell type	T2bNXM0	6
7	59	М	Kidney	renal cell carcinoma, clear cell and granular cell type	T1bNXM0	6
8	56	м	Kidney	renal cell carcinoma, clear cell and pseudosarcomatous type	T1bN0M1*	6
9	42	F	Kidney	renal cell carcinoma, clear cell type	T3aNXM0	6
10	50	M	Kidney	renal cell carcinoma, clear cell type	T1aN0M0	6
11	52	M	Kidney	renal cell carcinoma, clear cell type	T1aN0M0	6
12	68	F	Kidney	renal cell carcinoma, clear cell type	T3aN0M0	6
13	60	F	Kidney	renal cell carcinoma, clear cell type	T3aN0M0	6
14	69	F	Kidney	renal cell carcinoma, clear cell type	T2aNXM0	6
15	54	M	Kidney	renal cell carcinoma, clear cell type	T1bNXM0	6
16	43	F	Kidney	renal cell carcinoma, clear cell type	T1aN0M0	6
17	53	M	Kidney	renal cell carcinoma, clear cell type	T3aN0M1**	6
18	59	M	Kidney	renal cell carcinoma, clear cell type	T3aN0M0	6
19	61	М	Kidney	renal cell carcinoma, collecting duct type	T1aNXM0	6
20	40	М	Kidney	renal cell carcinoma, dear cell type	T1aNXM0	6
21	52	M	Kidney	renal cell carcinoma, dear cell type	T1bN0M0	6
22	63	F	Kidney	renal cell carcinoma, dear cell and granular cell type	T2aN0M0	6
23	64	M	Kidney	renal cell carcinoma, dear cell tina grunular cell type	TIDNOMO	6
2.0	37	M	Kidney	renal cell carcinoma, cellecting dust tune	T25N0M0	6
27	57	M	Kidoov	renal cell carcinoma, collecting duct type	TIDAVMO	6
25	74	M	Kidney	renal cell carcinoma, papillary type	T20NAM0	6
20	/4	M	Noney	renal cell carcinoma, dear cell type	TANDARO	0
2/	6/	M	Kidney	renal cell carcinoma, clear cell type	14NXM0	0
28	50	M	Kidney	renal cell carcinoma	12aN0M0	6
29	74	M	Kidney	renal cell carcinoma, clear cell type	T3aN0M0	6
30	62	M	Kidney	renal cell carcinoma, clear cell and granular cell type	T3aN0M0	6
31	64	M	Kidney	renal cell carcinoma, papillary type	T1aNXM0	6
32	45	M	Kidney	renal cell carcinoma, clear cell type	T1bN0M0	6
33	62	M	Kidney	renal cell carcinoma	T3aN1M0	6
34	53	М	Kidney	renal cell carcinoma, clear cell type	T1bNXM0	6
35	64	M	Kidney	renal cell carcinoma, clear cell type	T1bNXM0	6
36	72	M	Kidney	renal cell carcinoma, clear cell type	T1aNXM0	6
37	62	F	Kidney	renal cell carcinoma, clear cell type	T3aN0M0	6
38	56	M	Kidney	renal cell carcinoma, clear cell type	T3aN0M0	6
39	58	M	Kidney	renal cell carcinoma	T2aN0M0	6
40	57	M	Kidney	renal cell carcinoma, clear cell and granular cell type	T3bN0M0	6
41	64	F	Kidney	transitional cell carcinoma, pelvis		6
42	43	F	Kidney	renal cell carcinoma, dear cell type	T1bN0M0	6
43	52	F	Kidney	renal cell carcinoma, granular cell type	T1bN0M0	6
44	64	М	Kidney	renal cell carcinoma, granular cell type	T3aN0M0	6
45	57	M	Kidney	renal cell carcinoma, dear cell type	T1bN0M0	6
46	59	M	Kidney	renal cell carcinoma, dear cell and granular cell type	T2aNXM0	6
47	47	M	Kidney	renal cell carcinoma, dear cell type	TIaNXMO	6
48	77	M	Kidney	renal cell carcinoma, clear cell type	TIaNOMO	6
40	47	F	Kidney	renal cell carcinoma, clear cell and oranular cell tune	TZaNYMO	6
50	-1/	F	Kidoov	renal call carcinoma, dear cell tros	T3aM0M0	6
50	50	M	Kidney	Normal of No. 4	1 Januriu	3
51	39	E E	Kidoov	Normal of No. 16	•	2
52	40	r.	Kideou	Normal of No. 20	•	2
55	40	M	Noney	Normal of No. 20	•	3
54	52	M	Naney	Normal of No. 21		3
55	62	M	Kidney	Normal of No. 30		3
56	72	M	Kidney	Normal of No. 36		3
57	43	F	Kidney	Normal of No. 42		3
58	77	м	Kidney	Normal of No. 48		3
59	55	F	Kidney	Normal of No. 50		3
60			Carbon			

#2 *: lung metastasis #8 *: metastasis to contralateral kidney #17 *: perinephric fat involvement, **: bone metastasis TNM and Stage: AJCC Cancer Staging Manual (7th Edition) Tissue type*: see General information sheet Supplementary data sheet contains tumor size, capsule involvement, vein involvement and survival data (available by web)



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CL2 Supplementary data

No.	Size (cm)	Capsule	Vein	Other	Follow-up	Follow-up	Cause of death	Remark
1	12	+	involve		119	alive		
2	6	+	+	-	118	alive		
3	9	+	+	-	65	dead	cancer	
4	7.5	+	-	-	116	alive		
5	8	+	-	-	116	alive		
6	11	+	-	-	115	alive		
7	7	+	+	-	4	dead	cancer	
8	7	+	-	-	43	dead	cancer	
9	10	-	+	-	116	alive		
10	3.5	-	-	-	113	alive		1.1
11	4	-	-	-	112	alive		
12	6	+	+	-	112	alive		
13	5	-	+	-	32	dead	cancer	
14	7.5	+	-	-	111	alive		1.1
15	7	+	-	-	110	alive		
16	4	+	-	-	110	alive		
17	5.5	-	-	+*	110	alive		
18	3.5	-	+	-	109	alive		1.1
19	4	+	-	-	108	alive		
20	2.2	-	-	-	108	alive		
21	6	+	-	-	107	alive		1.1
22	7.5	+	-	-	85	dead	cancer	1.1
23	5.4	+	-	-	59	dead	chronic renal failure	
24	10.5	-	-	-	15	dead	cancer	1.1
25	5	-	-	-	106	alive		1.1
26	17	-	+	-	90	dead	cancer	
27	9	+	+	+*	22	dead	cancer	
28	9	-	-	-	105	alive		1.1
29	17	-	+	-	90	dead	cancer	1.1
30	7	+	+	-	105	alive		1.1
31	4	-	-	-	105	alive		1.1
32	6.5	-	-	-	105	alive		1.1
33	10	+	-	-	30	dead	cancer	1.1
34	4,5	+	-	-	104	alive		1.1
35	6	-	-	-	104	alive		1.1
36	1.5	-	-	-	104	alive		1.1
37	11	-	-	+*	103	alive		1.1
38	4	+	+	-	31	dead	cancer	1.1
39	8.5	-	-	-	101	alive	100 C	1.1
40	10	+	-	-	101	alive		1.1
41					0	dead	cancer	1.1
42	6	-	-	-	100	alive		
43	7	-	-	-	100	alive		
44	10	-	+	+*	4	dead	cancer	
45	4.5	+	-	-	99	alive		1.1
46	8	+	-	-	38	dead	cancer	
47	4	+	-	-	98	alive		1.1
48	2.5	+	-	-	18	dead	cancer	1.1
49	8	+	-	-	22	dead	breast cancer	1.1
50	3	+	-	-	97	alive		
51								
52								1.1
53								
54								
55								1.1
56								
57								
58								1.1
59								1.1
1 60								

Patients information of Prostate cancer-normal tissue microarray



118-88 Yongdu-dong, Seoul 130-820, Korea Tel +82 2 3676 8270 Fax +82 2 3676 8269 www.tissue-array.com info@tissue-array.com

No		e	0	Disease	Gleason	TNM		Tissue
110.	Age	Sex	Organ	Diagnosis	score	ртим	Stage	type*
1	60	M	Prostate	adenocarcinoma	9	тзымомо		6
2	64	M	Prostate	adenocarcinoma	7	T2cN0M0	IIB	6
3	71	M	Prostate	adenocarcinoma	9	тзьмомо	=	6
4	64	M	Prostate	adenocarcinoma	10	T3aN0M0		6
5	59	M	Prostate	adenocarcinoma	9	T35N0M0	=	6
6	65	M	Prostate	adenocarcinoma	8	тзымомо		6
7	73	M	Prostate	adenocarcinoma	7	T2cN0M0	IIB	6
8	69	M	Prostate	adenocarcinoma	7	T2cN0M0	IIB	6
9	62	M	Prostate	adenocarcinoma	7	T2cN0M0	IIB	6
10	66	M	Prostate	adenocarcinoma	9	тзымомо		6
11	60	M	Prostate	adenocarcinoma	9	T3bN0M0	=	6
12	66	M	Prostate	adenocarcinoma	7	T3aN0M0		6
13	70	M	Prostate	adenocarcinoma	7	тзымомо		6
14	65	M	Prostate	adenocarcinoma	9	T3bN0M0		6
15	67	M	Prostate	adenocarcinoma	9	T3bN1M0		6
16	69	M	Prostate	adenocarcinoma	7	T3bN0M0		6
17	63	M	Prostate	adenocarcinoma	9	T3aN1M0		6
18	69	M	Prostate	adenocarcinoma	7	T3aN0M0	111	6
19	70	M	Prostate	adenocarcinoma	7	T3aN0M0	11	6
20	58	M	Prostate	adenocarcinoma	9	T3bN0M0		6
21	58	M	Prostate	adenocarcinoma	7	T3bN0M0		6
22	71	M	Prostate	adenocarcinoma	7	T2cN0M0	IIB	6
23	70	M	Prostate	adenocarcinoma	7	T3bN0M0	111	6
24	59	M	Prostate	adenocarcinoma	6	T2bN0M0	IIA	6
25	63	M	Prostate	adenocarcinoma	9	тзымомо		6
26	72	M	Prostate	adenocarcinoma	9	тзымомо		6
27	66	M	Prostate	adenocarcinoma	8	тзымомо		6
28	70	M	Prostate	adenocarcinoma	6	T3bN0M0		6
29	70	M	Prostate	adenocarcinoma	7	T2cN0M0	IIB	6
30	68	M	Prostate	adenocarcinoma	8	T3bN0M0		6
31	63	M	Prostate	adenocarcinoma	10	T3bN0M0		6
32	57	M	Prostate	adenocarcinoma	7	T3bN0M0		6
33	72	M	Prostate	adenocarcinoma	8	T2cN0M0	IIB	6
34	70	M	Prostate	adenocarcinoma	8	T3bN0M0		6
35	75	M	Prostate	adenocarcinoma	9	T3bN0M0		6
36	62	M	Prostate	adenocarcinoma	9	тзымомо		6
37	63	M	Prostate	adenocarcinoma	9	тзымомо		6
38	53	M	Prostate	adenocarcinoma	9	тзымомо		6
39	63	M	Prostate	adenocarcinoma	8	тзымомо		6
40	44	M	Prostate	adenocarcinoma	7	тзымомо		6
41	69	M	Prostate	normal (match of #8)				3
42	62	M	Prostate	normal (match of #9)				3
43	66	M	Prostate	normal (match of #12)				3
44	65	M	Prostate	normal (match of #14)				3
45	69	M	Prostate	normal (match of #18)				3
46	70	M	Prostate	normal (match of #19)				3
47	70	M	Prostate	normal (match of #29)				3
48	63	M	Prostate	normal (match of #31)				3
49	44	M	Prostate	normal (match of #40)				3
50			Carbon					

CA4 Human, Prostate cancer-normal

TNM and Stage: AJCC Cancer Staging Manual (7th Edition) Tissue type*: see General information sheet Supplementary data sheet contains PSA level, residual tumor and survival data (available by web)



118-88 Yongdu-dong, Seoul 130-820, Korea Tel +82 2 3676 8270 Fax +82 2 3676 8269 www.tissue-array.com info@tissue-array.com

	PSA	Residual	Follow-up	Follow-up	Cause of	- I
No.	(ng/ml)	tumor	months	result	death	Kemark
1	11.2	RO	60	alive		
2	30	RO	60	alive		
3	60.4	R1	55	alive		
4	7.4	R1	47	alive		
5	9.8	R1	44	alive		
6	34.9	R1	43	alive		
7	48.1	R1	42	alive		
8	10.6	RO	42	alive		
9	37.3	R1	39	alive		
10	1.2	R1	39	alive		
11	40	R1	39	alive		
12	8.4	R1	39	alive		
13	7	R1	37	alive		
14	17.5	R1	23	dead	cancer	
15	13.1	R1	34	alive		
16	1.1	R1	33	alive		
17	11.8	R1	33	alive		
18	17.6	R1	27	alive		
19	9	R1	26	alive		
20	5.8	RO	26	alive		
20	15.8	R1	20	alive		
22	31.4	R1	24	alive		
22	14.4	R1	19	alive		
24	18.3	RO	18	alive		
25	16.6	R1	17	alive		
26	2010	R1	16	alive		
27	10.8	P1	17	beeb	cancer	
28	10.8	R1	16	alive	cancer	
29	10.0	RO	15	alive		
30	26.9	R1	15	alive		
31	2013	R1	15	alive		
32	25	R1	15	alive		
33	16.8	R1	15	alive		
34	0.5	R1	15	alive		
35	98	R1	15	alive		
36		R1	15	alive		
37	91	R1	14	alive		
38	161	R1	17	head	cancer	
39	13	R1	13	alive	CONTRACT	
40		R1	11	alive	•	
41						
42						
43						
44						
45						
46						
47						
49						
49						
50						

CA4 Supplementary data

* R0: No residual tumor. * R1: Positive resection margin.

SUPER BIO CHIPS

118-88 Yongdu-dong, Seoul 130-820, Korea Tel +82 2 3676 8270 Fax +82 2 3676 8269 www.fissue-array.com info@tissue-array.com

Quality Control Sheet of CA4-D

Although we are doing our best to maintain the quality of every slide, the content of each

case varies from slide to slide. Some of the cases may not contain adequate tissue. Please refer to this quality control sheet for evaluation.

#11: a few cancer cells included.

QC team Superbiochips Laboratories

Patients information of Uterine cervix cancer-metastasis-normal tissue microarray



118-88 Yongdu-dong, Seoul 130-820, Korea Tel +82 2 3676 8270 Fax +82 2 3676 8269 www.tissue-array.com info@tissue-array.com

No.	Age	Sex	Organ	Diagnosis	pTNM	Stage	Tissue type*
1	70	F	Cervix	squamous cell carcinoma, microinvasive	T1a1N0M0	IA1	6
2	46	F	Cervix	squamous cell carcinoma, microinvasive	T1a1N0M0	IA1	6
3	42	F	Cervix	squamous cell carcinoma, microinvasive	T1a1N0M0	IA1	6
4	57	F	Cervix	squamous cell carcinoma in situ	TisN0M0	0	6
5	33	F	Cervix	squamous cell carcinoma, microinvasive	T1a1N0M0	IA1	6
6	35	F	Cervix	squamous cell carcinoma in situ	TisN0M0	0	6
7	48	F	Cervix	squamous cell carcinoma, microinvasive	T1a1N0M0	IA1	6
8	39	F	Cervix	squamous cell carcinoma, microinvasive	T1a1N0M0	IA1	6
9	58	F	Cervix	squamous cell carcinoma, microinvasive	T1a1N0M0	IA1	6
10	53	F	Cervix	squamous cell carcinoma in situ	TisN0M0	0	6
11	53	F	Cervix	squamous cell carcinoma	T1b2N0M0	IB2	6
12	53	F	Cervix	squamous cell carcinoma	T25N1M0	IIIB	6
13	50	F	Cervix	adenocarcinoma	T1b2N1M0	IIIB	6
14	45	F	Cervix	squamous cell carcinoma	T1b2N1M0	IIIB	6
15	49	F	Cervix	squamous cell carcinoma	T151N1M0	IIIB	6
16	35	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
17	57	F	Cervix	squamous cell carcinoma	T2a1N0M0	IIA1	6
18	39	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
19	66	F	Cervix	squamous cell carcinoma	T2a1N1M0	IIIB	6
20	55	F	Cervix	squamous cell carcinoma	T1b2N0M0	IB2	6
21	64	F	Cervix	squamous cell carcinoma	T1b2N1M0	IIIB	6
22	50	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
23	48	F	Cervix	squamous cell carcinoma	T1b1N1M0	IIIB	6
24	51	F	Cervix	squamous cell carcinoma	T1b2N1M0	IIIB	6
25	54	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
26	39	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
27	58	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
28	57	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
29	55	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
30	35	F	Cervix	squamous cell carcinoma	T1b1N1M0	IIIB	6
31	62	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
32	64	F	Cervix	squamous cell carcinoma	T1b2N1M0	IIIB	6
33	60	F	Cervix	adenosquamous carcinoma	T1b1N0M0	IB1	6
34	43	F	Cervix	squamous cell carcinoma	T1b1N1M0	IIIB	6
35	68	F	Cervix	squamous cell carcinoma	T151N0M0	IB1	6
36	45	F	Cervix	squamous cell carcinoma	T152N0M0	IB2	6
3/	40	-	Cervix	squamous cell carcinoma	T151N0M0	IB1	6
38	58	F	Cervix	adenosquamous carcinoma	T151N0M0	IB1	6
39	67	F	Cervix	squamous cell carcinoma	T151N0M0	IB1	6
40	48	-	Cervix	squamous cell carcinoma	T151N1M0	IIIB	6
41	62	F	Cervix	squamous cell carcinoma	T1b2N1M0	IIIB	6
42	32	F	Cervix	squamous cell carcinoma	1101N1M0	IIIB	6
43	55	F	Cervix	squamous cell carcinoma	12a1N1M0	III B	6
44	61	F	Cervix	squamous cell carcinoma	T2DN1M0	IIIB	6
45	34	F	Cervix	adenocarcinoma	T1b2N1M0	III B	6
46	55	F	Cervix	squamous cell carcinoma	TIDINOMO	IB1	6
4/	45	F	Cervix	squamous cell carcinoma	T1b1N0M0	IB1	6
48	65	-	Cervix	squamous cell carcinoma	TIDINUMU	181	6
49	4/	F	Cervix	squamous cell carcinoma	1101N1M0	IIIB	6
50	59	F	Cervix	adenosquamous carcinoma	11b2N1M0	IIIB	6
51	62	F	Lympn node	metastatic carcinoma of No.41			6
52	32	F	Lymph node	metastatic carcinoma of No.42			6
53	55	F	Lympn node	metastatic carcinoma of No.43			6
54	61	F	Lymph node	metastatic carcinoma of No.44		•	6
55	34	F	Lymph node	metastatic carcinoma of No.45			6
56	53	F	Cervix	normal of No.46			3
5/	45	F	Cervix	normal of No.4/			3
58	65	F	Cervix	normal of No.48			3
59	47	F	Cervix	normal of No.49			3
60			Carbon				

CZA2 Human, Uterine cervix cancer-metastasis-normal

TNM and Stage: AJCC Cancer Staging Manual (7th Edition) Tissue type*: see General information sheet Supplementary data sheet contains survival data (available by web)

Patients information of Esophagus cancer tissue microarray



118-88 Yongdu-dong, Seoul 130-820, Korea Tel +82 2 3676 8270 Fax +82 2 3676 8269 www.tissue-array.com info@tissue-array.com

CR2 Human, Esophagus cancer

No.	Age	Sex	Organ	Diagnosis	pTNM	Stage	Tissue type*
1	58	Μ	Esophagus	basaloid carcinoma	T3N0M0	ПB	6
2	54	M	Esophagus	squamous cell carcinoma, moderately differentiated	T2N3M0	IIIC	6
3	57	Μ	Esophagus	squamous cell carcinoma, poorly differentiated	T3N2M0	ШB	6
4	75	M	Esophagus	squamous cell carcinoma	T3N1M0	IIIA	6
5	46	Μ	Esophagus	squamous cell carcinoma, well differentiated	T3N1M0	IIIA	6
6	58	Μ	Esophagus	squamous cell carcinoma, moderately differentiated	T3N2M0	IIIB	6
7	70	Μ	Esophagus	squamous cell carcinoma, moderately differentiated	T3N2M0	IIIB	6
8	66	Μ	Esophagus	squamous cell carcinoma, moderately differentiated	T3N0M0	ПB	6
9	53	Μ	Esophagus	small cell carcinoma	T2N2M0	IIIA	6
10	67	М	Esophagus	squamous cell carcinoma, well differentiated	T3N0M0	IIA	6
11	60	F	Esophagus	squamous cell carcinoma, well differentiated	T3N0M0	I B	6
12	69	M	Esophagus	squamous cell carcinoma, well differentiated	T3N0M0	IIA	6
13	62	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3N0M0	IIB	6
14	57	M	Esophagus	squamous cell carcinoma, well differentiated	T3N1M0	D	6
15	62	M	Esophagus	squamous cell carcinoma, well differentiated	T3N0M0	11.4	6
16	26	E	Ecophagus	adapactering and differentiated	TILNOMO	1.4	6
10	30	F M	Esophagus	adenocal cinoma, wen dinerendated	TONOMO	10	4
1/	60	M	Esophagus	squamous cell carcinoma, well differentiated	T3N0M0	18	0
18	50	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3NUMU	IIA	0
19	60	F	Esophagus	squamous cell carcinoma, moderately differentiated	T3N1M0	IIIA	6
20	57	M	Esophagus	squamous cell carcinoma, moderately differentiated	13N2M0	IIIB	6
21	58	M	Esophagus	squamous cell carcinoma, well differentiated	T3N2M0	IIIB	6
22	74	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3N0M0	ПB	6
23	56	F	Esophagus	squamous cell carcinoma, poorly differentiated	T3N2M0	IIIB	6
24	43	M	Esophagus	squamous cell carcinoma, well differentiated	T3N1M0	IIIA	6
25	69	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3N2M0	IIIB	6
26	58	Μ	Esophagus	squamous cell carcinoma, poorly differentiated	T3N1M0	IIIA	6
27	62	Μ	Esophagus	squamous cell carcinoma, well differentiated	T4aN0M0	IIIA	6
28	63	Μ	Esophagus	adenosquamous carcinoma	T3N1M0	IIIA	6
29	56	Μ	Esophagus	squamous cell carcinoma, well differentiated	T4aN2M0	IIIC	6
30	59	М	Esophagus	squamous cell carcinoma, moderately differentiated	T3N1M0	IIIA	6
31	50	Μ	Esophagus	squamous cell carcinoma, well differentiated	T3N1M0	IIIA	6
32	52	М	Esophagus	squamous cell carcinoma, well differentiated	T2N2M0	IIIA	6
33	58	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3N3M0	IIIC	6
34	64	F	Esophagus	squamous cell carcinoma, moderately differentiated	T3N1M0	IIIA	6
35	60	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3N1M0	IIIA	6
36	64	M	Esophagus	squamous cell carcinoma, well differentiated	T3N1M0	IIIA	6
37	52	M	Esophagus	squamous cell carcinoma, well differentiated	T3N2M0	III R	6
20	45	M	Esophagus	adenosquamous carcinoma	T3N0M0	I B	6
20	45	M	Ecophagus	saurmous call corrinoms, wall differentiated	T2N0M0	10	6
40	40	M	Esophagus	squamous cell carcinoma, well unterenuated	TONOMO	10	6
40	00	M	Esophagus	squarrous cell carcinoma, moderately differentiated	TONIMO		0
41	69	M	Esophaqus	squamous cell carcinoma, moderately differentiated		IIIA IIID	6
42	00	M	Esophagus	squamous cell carcinoma, well differentiated	TONIZMU	11110	
43	62	M	Esophagus	squamous cell carcinoma, well differentiated	T3N1M1	IV III	6
44	52	M	Esophagus	squarrous cell carcinoma, poony differentiated	TONICH	IIIA	6
45	59	M	Esophagus	squamous cell carcinoma, moderately differentiated	1 3NUMU	IIA	6
46	67	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3N1M0	IIIA	6
47	65	М	Esophagus	adenosquamous cell carcinoma	T4aN0M0	IIIA	6
48	51	М	Esophagus	adenosquamous cell carcinoma, moderately differentiated	T3N0M0	II B	6
49	47	M	Esophagus	squamous cell carcinoma, well differentiated	T3N2M0	IIIB	6
50	42	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3N3M1	IV	6
51	66	M	Esophagus	squamous cell carcinoma, poorly differentiated	T3N1M0	IIIA	6
52	53	M	Esophagus	adenocarcinoma, moderately differentiated	T3N2M0	IIIB	6
53	59	M	Esophagus	squamous cell carcinoma, well differentiated	T3N2M0	IIIB	6
54	59	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3N1M0	IIIA	6
55	50	Μ	Esophagus	squamous cell carcinoma, moderately differentiated	T3N1M0	IIIA	6
56	42	Μ	Esophagus	squamous cell carcinoma, moderately differentiated	T3N0M0	IIA	6
57	69	Μ	Esophagus	adenocarcinoma, poorly differentiated	T3N3M0	IIIC	6
58	54	M	Esophagus	squamous cell carcinoma, moderately differentiated	T3N0M0	IIA	6
59	70	M	Esophagus	squamous cell carcinoma, moderately differentiated	T2N1M0	IIB	6
60	68	M	Esophagus	squamous cell carcinoma, well differentiated	T3N2M0	III B	6

TNM and Stage: AJCC Cancer Staging Manual (7th Edition) Tissue type*: see General information sheet Supplementary data sheet contains survival data (available by web)

Patients information of Osteosarcoma tissue microarray



118-88 Yongdu-dong, Seoul 130-820, Korea Tel +82 2 3676 8270 Fax +82 2 3676 8269 www.tissue-array.com info@tissue-array.com

CV2 Human, Osteosarcoma

No		C	0	Diagonacia	Treese
NO.	Age	Sex	Urgan	Diagnosis	Tissue type
1	24	M	Bone, femur	osteosarcoma, osteoblastic type	6
2	17	F	Bone, femur	osteosarcoma	6
3	16	M	Bone, femur	osteosarcoma	6
4	23	M	Bone	osteosarcoma	6
5	14	F	Bone, femur	osteosarcoma	6
6	37	M	Bone pelvis	osteosarcoma	6
17	17	M	Pana, palvis	esteesarcoma, chondroblastis tuno	6
6	20	M	Done, pervis	esteesarcoma, chondroblastic type	6
<u> </u>	20	M	Bone, remur	osteosarcoma, chondrobiastic type	0
9	20	M	Bone, Ilium	osteosarcoma, chondroblastic type	6
10	18	M	Bone, femur	osteosarcoma, chondroblastic type	6
11	17	M	Bone, tibia	osteosarcoma, osteoblastic type	6
12	20	M	Knee	osteosarcoma, osteoblastic type	6
13	35	F	Bone, humerus	osteosarcoma	6
14	44	F	Hip	osteosarcoma	6
15	19	M	Bone, femur	osteosarcoma, osteoblastic type	6
16	44	F	Bone, femur	osteosarcoma	6
17	19	M	Bone, femur	osteosarroma, osteoblastic type	6
19	16	M	Log	osteosarcoma, osteoslastic type	6
10	10	M	Rone formur	esteesarcoma, chondroblasce cype	6
15	10	11	Bone, femur	osteosarcoma, telanglectatic type	0
20	10	M	Bone, remur	osteosarcoma, osteoplastic type	6
21	10	M	Bone, femur	osteosarcoma, osteoblastic type	6
22	10	M	Bone, femur	osteosarcoma, osteoblastic type	6
23	11	F	Bone, femur	osteosarcoma, osteoblastic type	6
24	11	M	Bone, femur	osteosarcoma, osteoblastic type	6
25	19	M	Bone, femur	osteosarcoma	6
26	19	м	Bone, femur	osteosarcoma	6
27	10	M	Bone, femur	osteosarcoma, osteoblastic type	6
28	10	M	Bone, femur	osteosarroma, osteoblastic type	6
20	14	M	Bone femur	osteosarcoma	6
20	10	M	Pone, rendihle	osteosarcoma	6
30	10	11	Bone, manuble	osteosarcoma	0
31	13	M	Bone, remur	osteosarcoma	6
32	14	M	Bone, temur	osteosarcoma, osteoplastic type	6
33	9	M	Bone, femur	osteosarcoma	6
34	12	F	Bone, tibia	osteosarcoma, chondroblastic type	6
35	9	F	Bone, tibia	osteosarcoma, chondroblastic type	6
36	5	M	Bone, femur	osteosarcoma	6
37	11	M	Bone, fibula	osteosarcoma, chondroblastic type	6
38	11	Μ	Bone, fibula	osteosarcoma, chondroblastic type	6
39	11	M	Bone, tibia	osteosarcoma	6
40	11	M	Bone, tibia	osteosarcoma	6
41	38	M	Mediastinum	extraskeletal osteosarcoma	6
47	34	F	Lung	metastatic osteosarroma, chondroblastic tuna	6
42	24	-	Rona, tibia and fibula	orteosarcoma, orteoblactic tune	6
45	24	Г	Pene colonest	esteosarcoma, esteoblastic type	6
44	26	M	bone, calcaneus	osteosarcoma, osteobiastic type	0
45	22	M	Bone, humerus	osteosarcoma, osteoblastic type	0
46	18	M	Bone, femur	osteosarcoma, osteoblastic type	6
47	22	M	Bone, tibia and fibula	osteosarcoma, osteoblastic type	6
48	20	F	Bone, tibia	osteosarcoma, osteoblastic type	6
49	22	M	Bone, humerus	osteosarcoma, osteoblastic type	6
50	24	M	Soft tissue, popliteal fossa	synovial sarcoma	6
51	23	Μ	Bone, humerus	osteosarcoma	6
52	17	F	Bone, tibia	osteosarcoma, fibroblastic type	6
53	16	F	Bone, femur	osteosarcoma	6
54	20	F	Bone, femur	osteosarroma, osteoblastic type	6
55	27	M	Rona famur	orteorarrama, orteoplastic ture	6
35	2/	M	Manadiala	extracted actors are a second store type	6
56	59	M	mandible	extraskeletal osteosarcoma	0
57	29	M	Sort tissue	granulation tissue	1
58	31	F	Bone, tibia	osteosarcoma, osteoblastic type	6
59	39	M	Bone, femur	osteosarcoma, osteoblastic type	6
60	61	F	Bone, ilium	radiation-induced sarcoma	6

Patients information of colon cancer tissue microarray



ab178122 – Colon cancer tissue array paired with normal tissues in triplicates, 126 samples (1.5mm), set 1

Instructions for Use

Designed for normal vs cancer IHC or ISH based protein or RNA tissue profiling in colon cancers.

This product is for research use only and is not intended for diagnostic use.

Product Overview:

ab178122 is a colon paired cancer/normal tissue array, set 1, 42 cases, 126 cores, non-over lapping with ab178123, one normal paired with two tumor tissue cores from each patient.

Case:	42
Core:	126
Format:	9 rows x 14 columns
Size:	1.5mm
Thickness:	4µm

All the tissues were fixed in 10% neutral buffered formalin for 24 hours and processed using identical SOPs. Sections were picked onto Superfrost Plus or Startfrost Adhesive slides. There may be >5% tissue core losses for a slide. But retention rate should be >90%.



Notes for use:

Bake the slides at 60°C for 30 minutes before use. If antigen retrieval is needed, it is always a good idea to start with a protocol with weak to mild strength.

For hints and tips on Immunohistochemistry as well as other techniques please visit <u>www.abcam.com/protocols</u>.

Keep up to date on Abcam events and conferences on Facebook & Twitter.