

Supplementary Materials: Expression Analysis of Autophagy Related Markers LC3B, p62 and HMGB1 Indicate an Autophagy-Independent Negative Prognostic Impact of High p62 Expression in Pulmonary Squamous Cell Carcinomas

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Table S1. LC3B Expression and clinico-pathologic parameters.

Parameter		LC3B		Total	p-Value
		Low	High		
gender	Male	104	121	225	0.627
	Female	19	27	46	
Age (median)	≤69	64	74	138	0.807
	>69	59	74	133	
pT-category	pT1a	1	3	4	0.839
	pT1b	7	12	19	
	pT1c	17	16	33	
	pT2a	23	31	54	
	pT2b	16	23	39	
	pT3	30	34	64	
	pT4	29	29	58	
pN-category	pN0	61	76	137	0.225
	pN1	42	58	100	
	pN2	20	14	34	
Distant metastases	M0	120	146	266	0.662
	M1	3	2	5	
Grading	Grade 1/2	55	87	142	0.028
	Grade 3	68	61	129	
total		123	148	271	

Table S2. p62 dot-like/cytoplasmic expression and clinico-pathologic parameters.

Parameter		p62 Dot-Like/Cytoplasmic		Total	p-Value
		Low	High		
gender	Male	97	128	225	0.139
	Female	14	32	46	
Age (median)	≤69	61	77	138	0.323
	>69	50	83	133	
pT-category	pT1a	1	3	4	0.236
	pT1b	10	9	19	
	pT1c	17	16	33	
	pT2a	23	31	54	
	pT2b	12	27	39	
	pT3	30	34	64	
	pT4	18	40	58	
pN-category	pN0	60	77	137	0.294
	pN1	35	65	100	
	pN2	16	18	34	
Distant metastases	M0	109	157	266	1.000
	M1	2	3	5	
Grading	Grade 1/2	65	77	142	0.108
	Grade 3	46	83	129	
total		160	271	160	

Table S3. p62 nuclear expression and clinico-pathologic parameters.

Parameter		p62 Nuclear		Total	p-Value
		Low	High		
gender	Male	131	94	225	0.871
	Female	26	20	46	
Age (median)	≤69	61	77	138	0.323
	>69	50	83	133	
pT-category	pT1a	3	1	4	0.576
	pT1b	12	7	19	
	pT1c	21	12	33	
	pT2a	25	29	54	
	pT2b	25	14	39	
	pT3	37	27	64	
	pT4	34	24	58	
pN-category	pN0	79	58	137	0.992
	pN1	58	42	100	
	pN2	20	14	34	
Distant metastases	M0	153	113	266	0.402
	M1	4	1	5	
Grading	Grade1/2	68	74	139	>0.001
	Grade 3	89	40	129	
total		157	114	271	

Table S4. HMGB1 expression and clinico-pathologic parameters.

Parameter	HMGB1		Total	p-Value
	Low	High		
gender	Male	122	103	0.106
	Female	31	15	
Age (median)	≤69	75	63	0.268
	>69	82	51	
pT-category	pT1a	0	4	0.126
	pT1b	13	6	
	pT1c	19	14	
	pT2a	34	20	
	pT2b	24	15	
	pT3	36	28	
	pT4	27	31	
	pT4	27	31	
pN-category	pN0	78	59	0.987
	pN1	56	44	
	pN2	19	15	
Distant metastases	M0	151	115	0.656
	M1	2	3	
Grading	Grade 1/2	85	57	0.270
	Grade 3	68	61	
total		153	118	

Table S5. Combination LC3B and p62 and clinico-pathologic parameters.

Parameter	LC3B/p62				Total	p-Value
	LL	LH	HL	HH		
gender	Male	53	51	44	77	0.380
	Female	6	13	8	19	
Age (median)	≤69	30	34	31	43	0.370
	>69	29	30	21	53	
pT-category	pT1a	0	1	1	2	0.447
	pT1b	3	4	7	5	
	pT1c	11	6	6	10	
	pT2a	12	11	11	20	
	pT2b	7	9	5	18	
	pT3	18	12	12	22	
	pT4	8	21	10	19	
	pT4	8	21	10	19	
pN-category	pN0	33	28	27	49	0.344
	pN1	15	27	20	38	
	pN2	11	9	5	9	
Distant metastases	M0	58	62	51	95	0.818
	M1	1	2	1	1	
Grading	Grade 1/2	31	24	34	53	0.023
	Grade 3	28	40	18	43	
total		59	64	52	96	

Figure S1. Survival curves of raw values of the immunohistochemical stainings.

