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Supplementary information

IgA transcytosis and antigen recognition govern ovarian cancer immunity

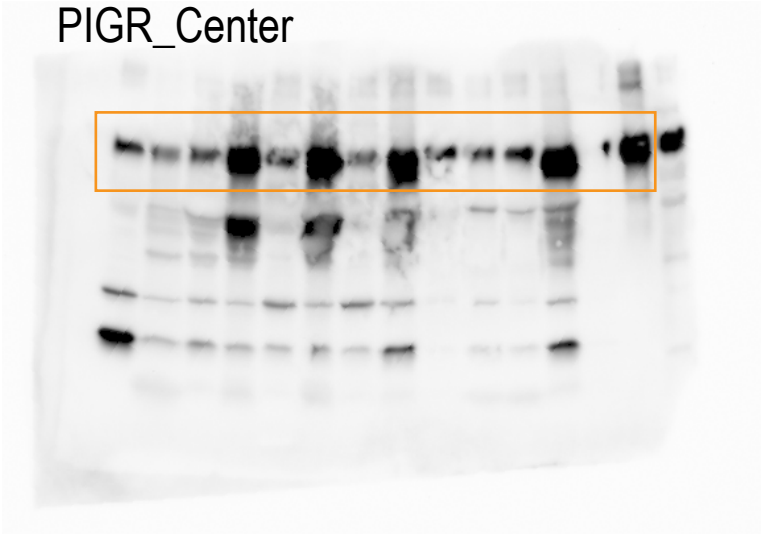
In the format provided by the authors and unedited

Supplementary Figure 1

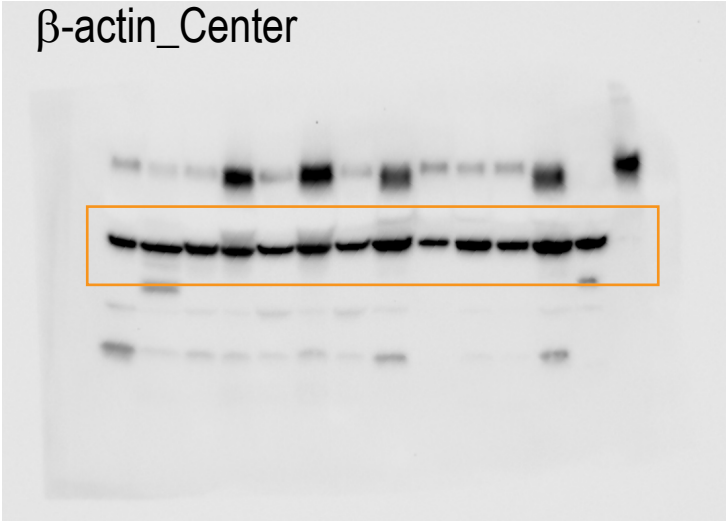
Uncropped western blots

Fig1c_Center and Right

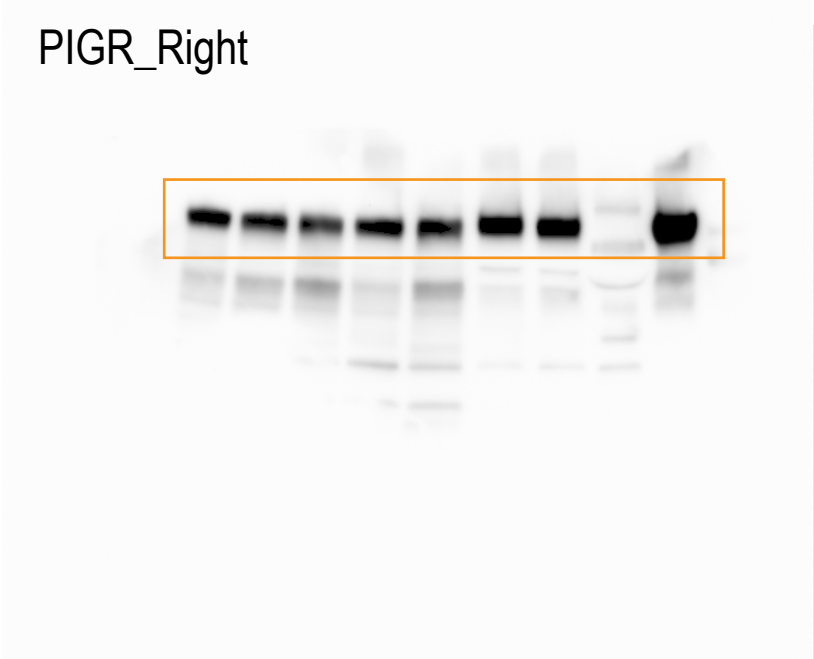
PIGR_Center



β-actin_Center



PIGR_Right



β-actin_Right

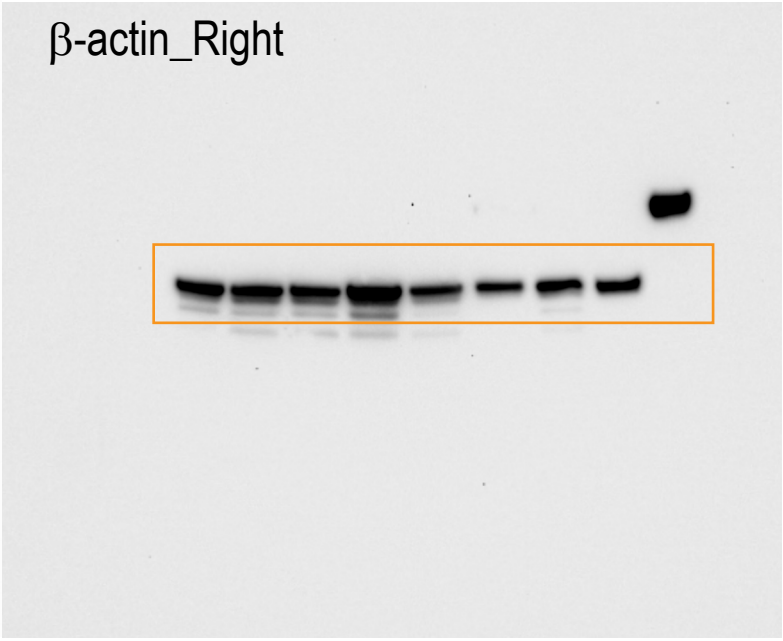
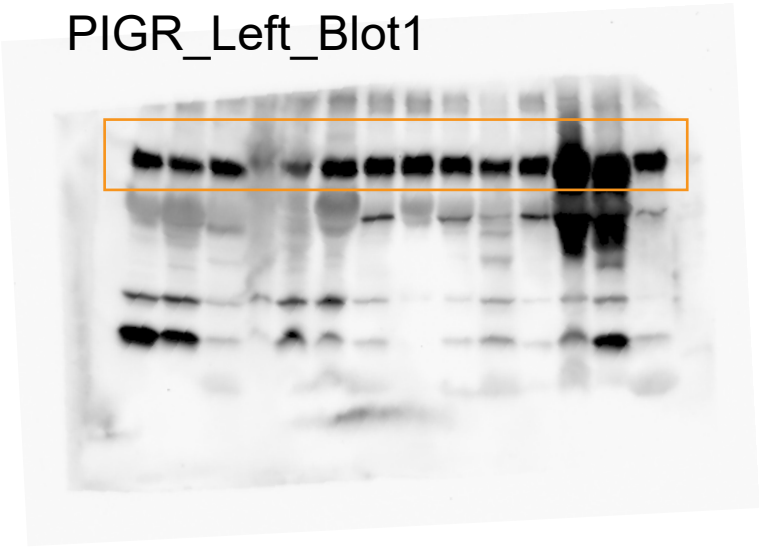
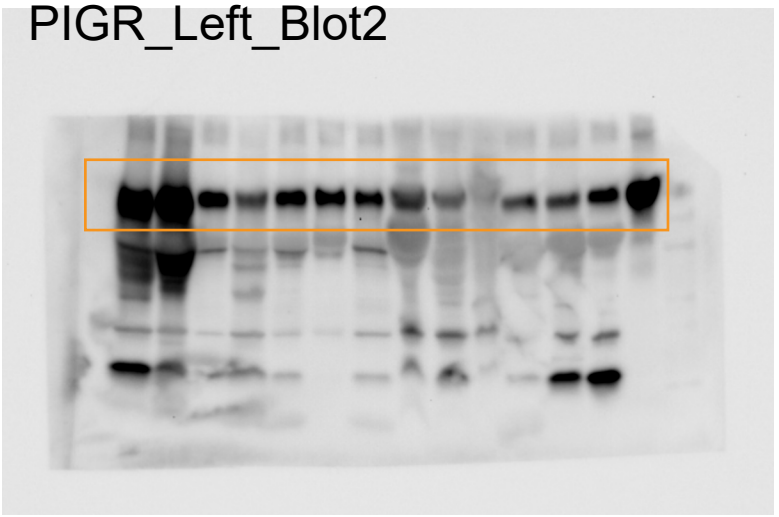


Fig1c_Left

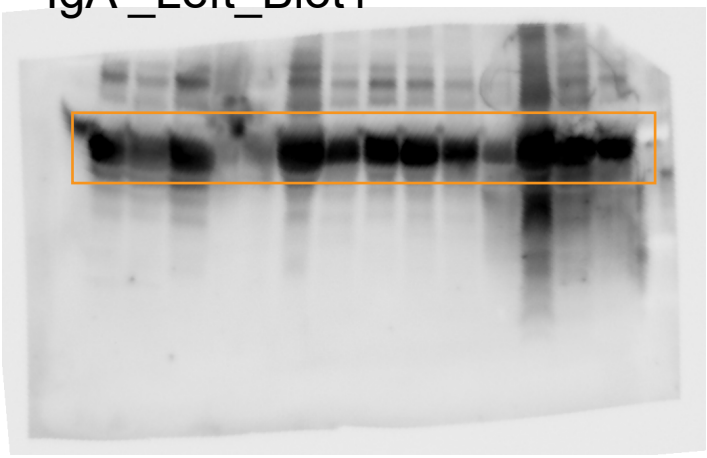
PIGR_Left_Blot1



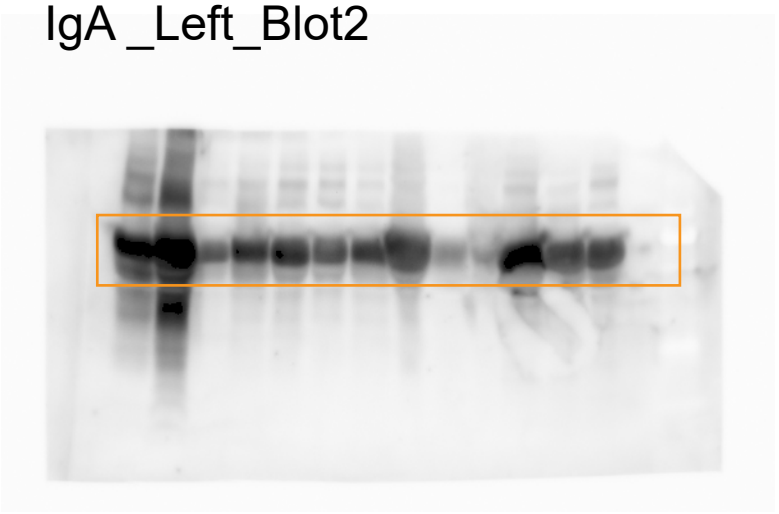
PIGR_Left_Blot2



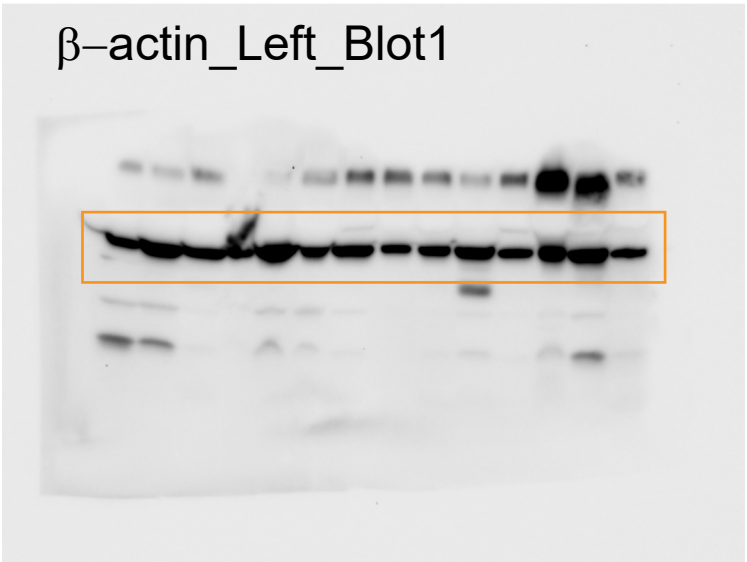
IgA _Left_Blot1



IgA _Left_Blot2

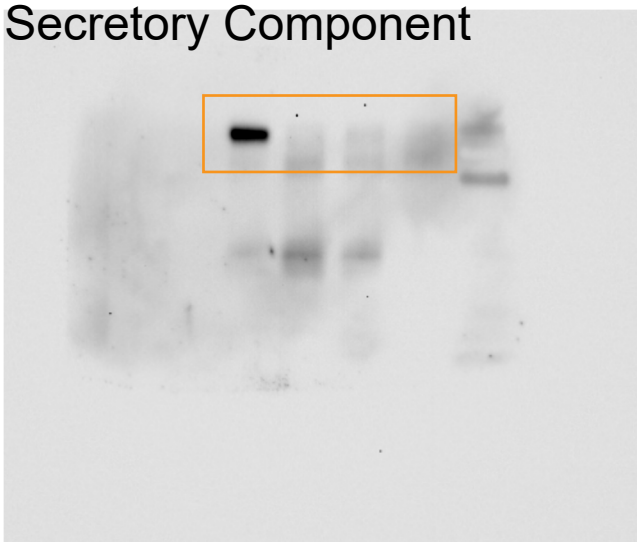


β–actin_Left_Blot1



β–actin_Left_Blot2

Fig. 2c



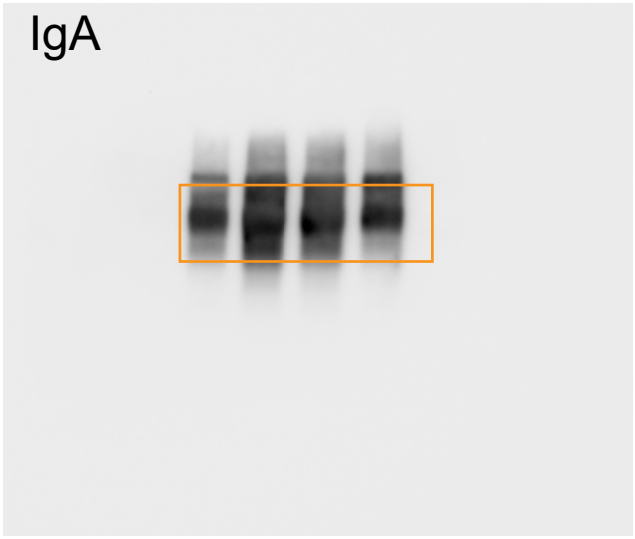
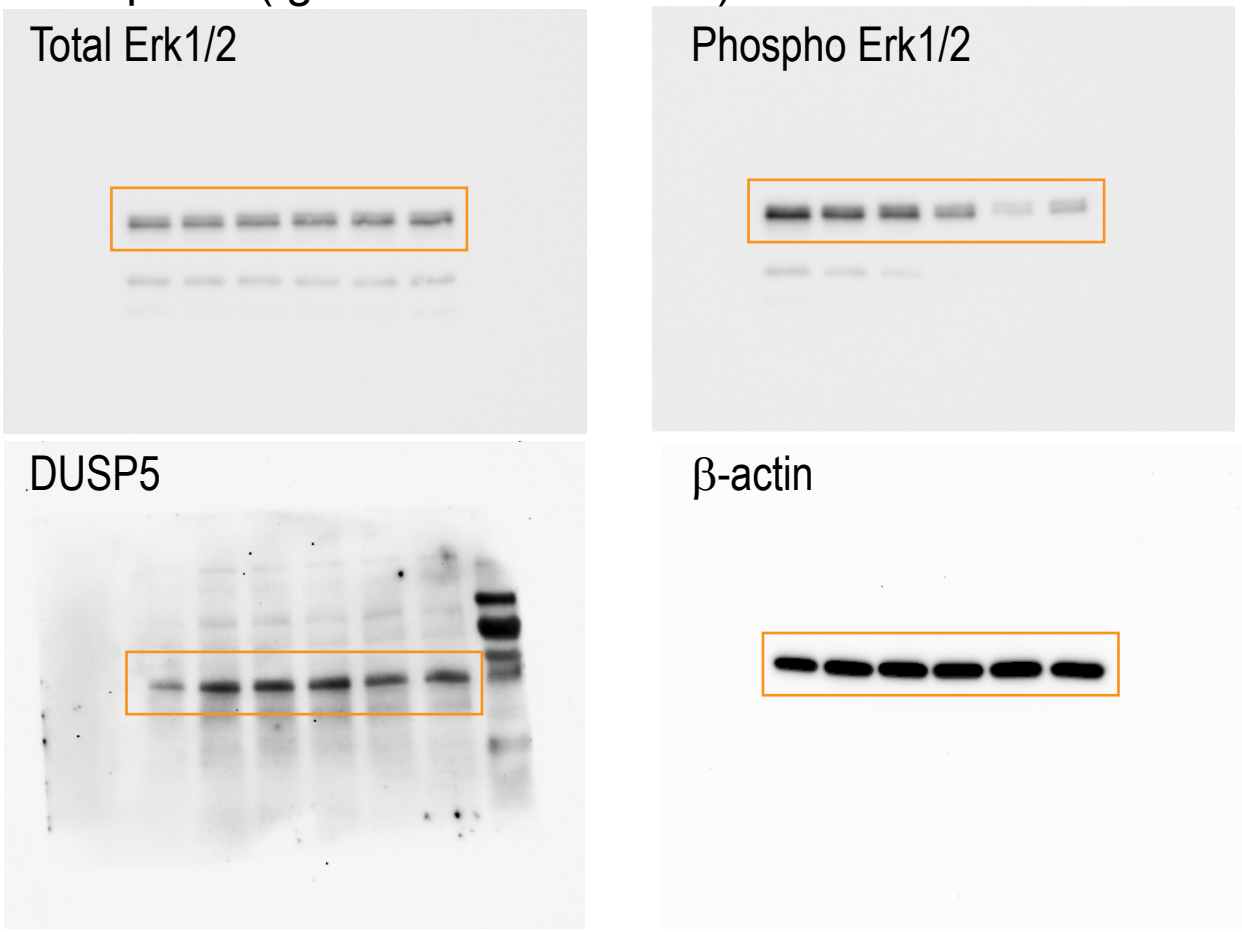


Fig.2e

Left panel (IgA treated OVCAR3)



Right panel (IgG treated OVCAR3)

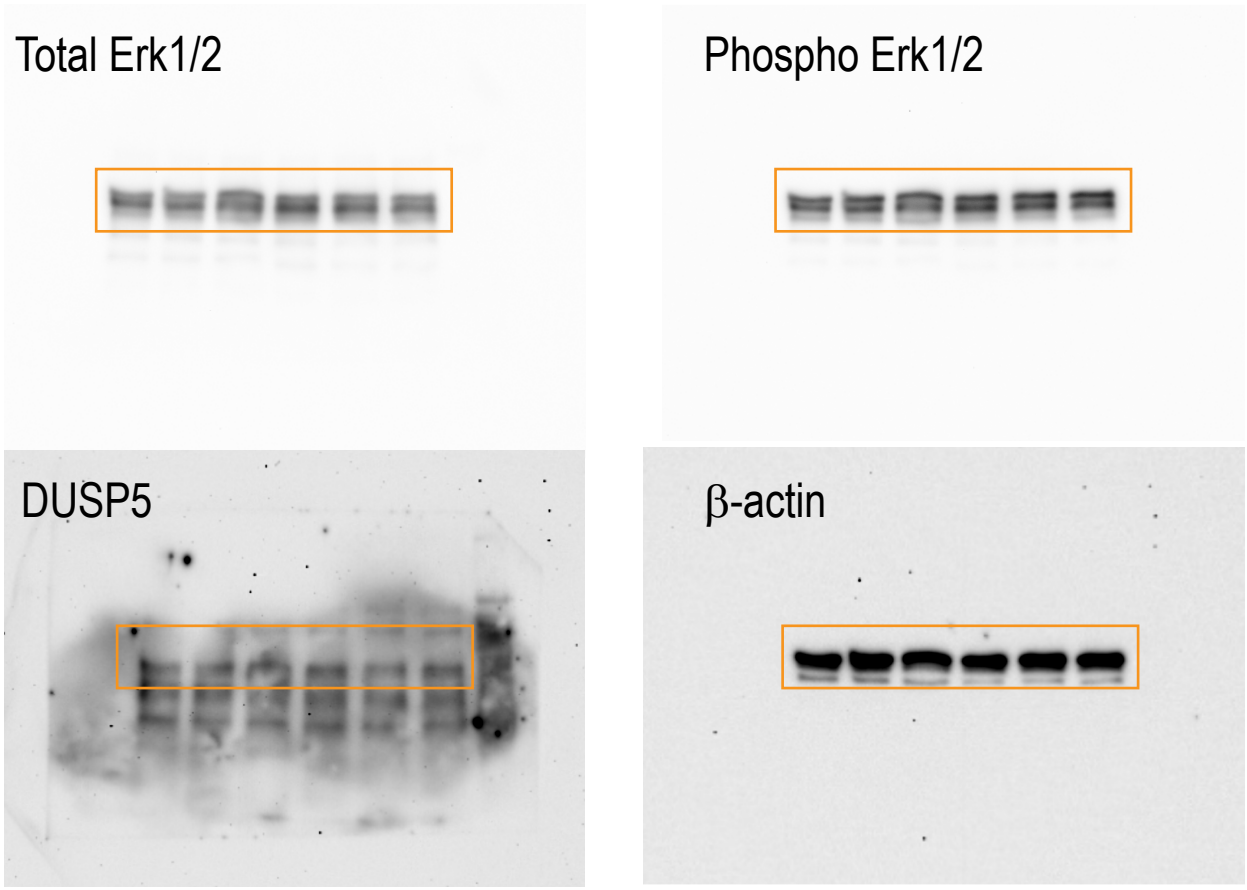
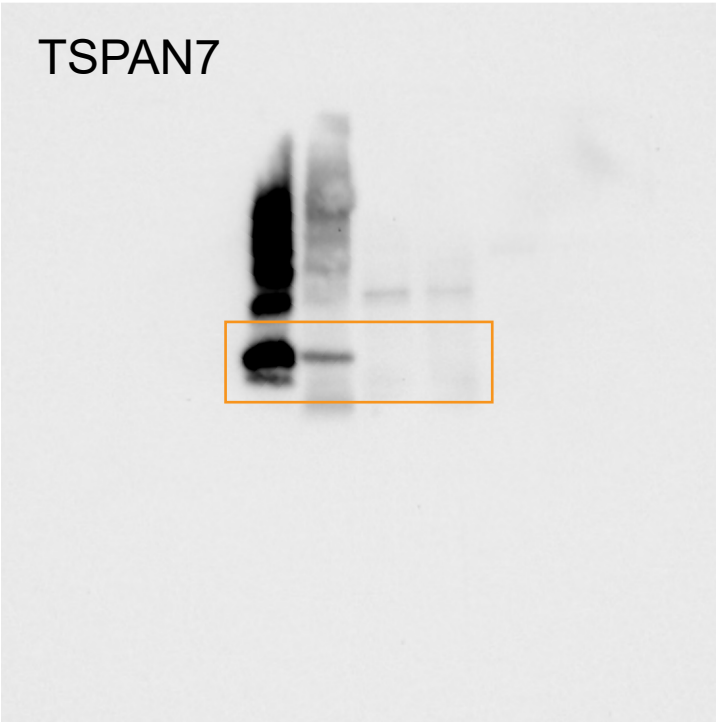
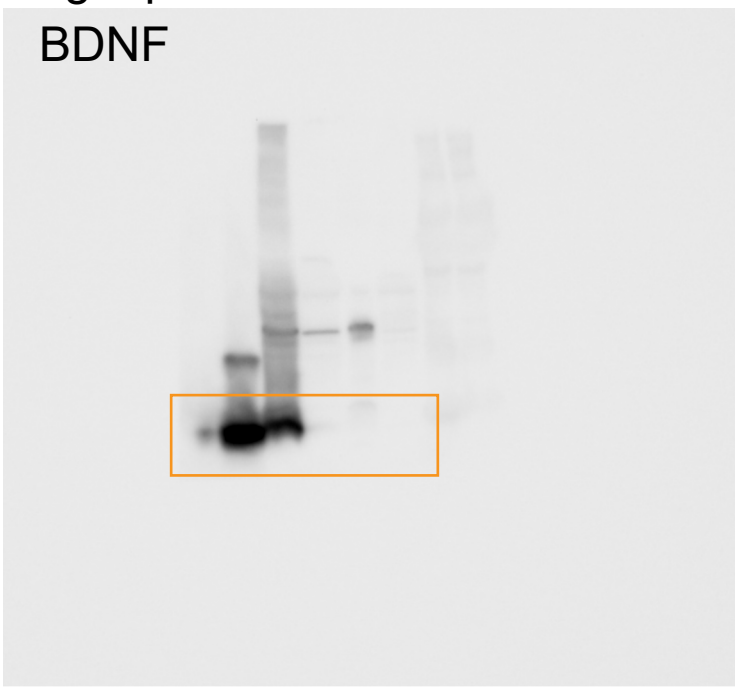


Fig.3c

Left panel

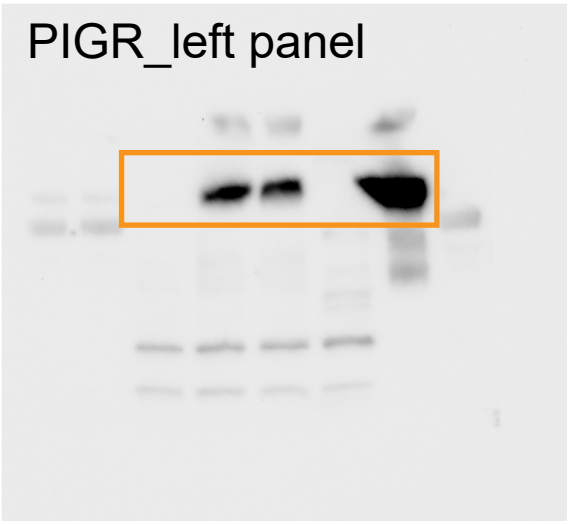


Right panel

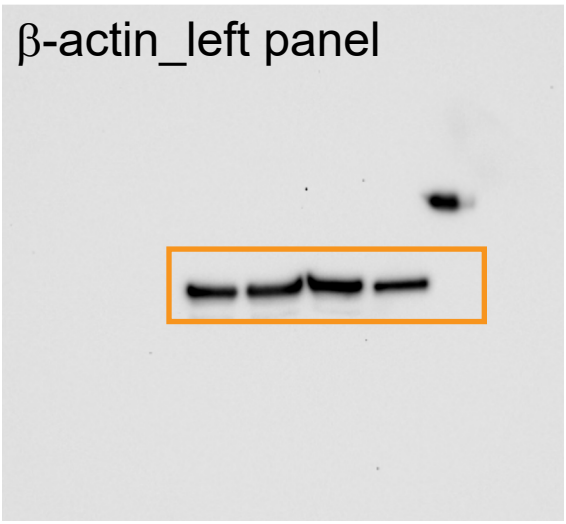


Extended Data Figure 3c

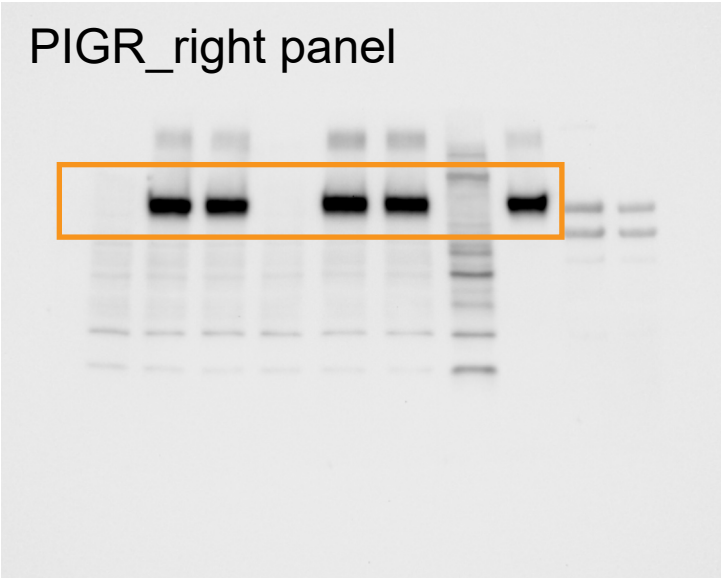
PIGR_left panel



β-actin_left panel

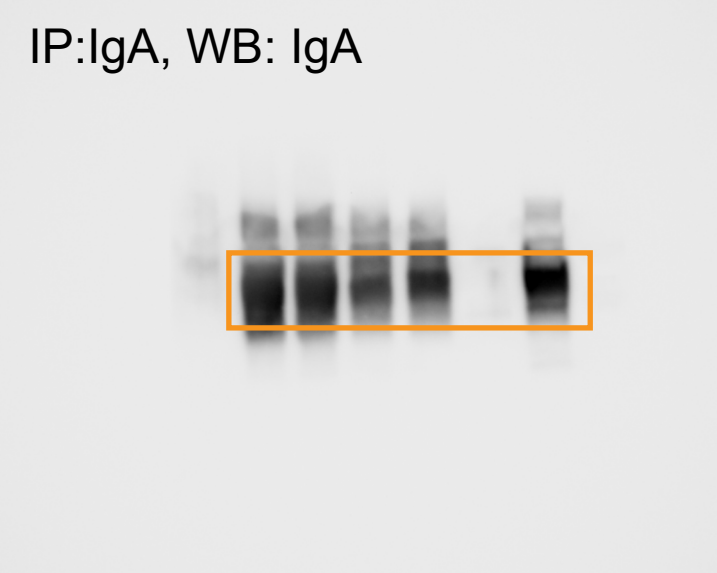


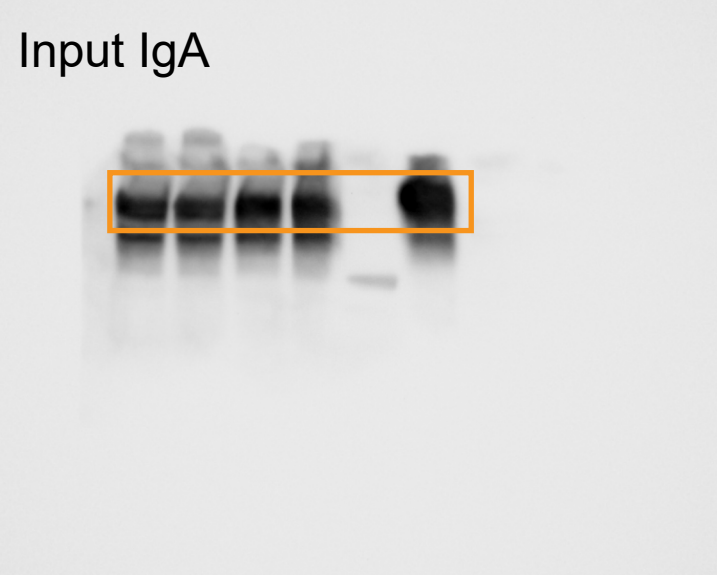
PIGR_right panel



β-actin_right panel

Extended Data Figure 4a





Extended Data Figure 4h

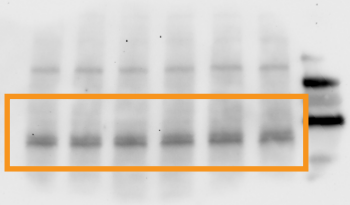
t-ERK1/2_Left panel

t-ERK1/2_Right panel

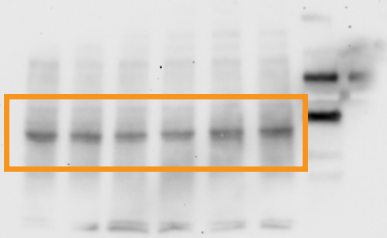
p-ERK1/2_Left panel

p-ERK1/2_Right panel

DUSP5_Left panel



DUSP5_Right panel



β-actin_Leftt panel

β-actin_Right panel

Supplementary Table 1

Statistical information associated with Figure 1a

Ig -class	Population	Min.	25th Percentile	Median	75th Percentile	Max.	IQR
IgA	B cells	0.214285714	0.585060351	0.691489362	0.80126183	1	0.216201479
IgA	Plasma cells	0.333333333	0.402777778	0.493519442	0.644444444	0.909090909	0.241666667
IgA	Plasmablasts	0.289473684	0.42503639	0.537878788	0.666666667	1	0.241630277
IgG	B cells	0	0.011288805	0.031914894	0.075709779	0.333333333	0.064420974
IgG	Plasma cells	0.037220844	0.218181818	0.35413643	0.414755733	0.584541063	0.196573915
IgG	Plasmablasts	0	0.257575758	0.331491713	0.446969697	0.537425854	0.189393939
IgM	B cells	0	0.134241245	0.210526316	0.333333333	0.785714286	0.199092088
IgM	Plasma cells	0	0.076719577	0.130434783	0.2	0.397022333	0.123280423
IgM	Plasmablasts	0	0.051313436	0.102040816	0.166666667	0.243093923	0.115353231

Horizontal black lines with each box present median values; boxes extend from 25th to 75th percentile of values; whiskers extend to a maximum of 1.5 X IQR (interquartile range=75th percentile-25th percentile) beyond the boxes; dots denote the value of all observations for each box; the lowest dots are the minimum values and highest dots are the maximum values for each box.

Comparison between	***P* value**	**Test performed**
IgA *vs.* IgG	1e-10	Two-way ANOVA followed by Dunnett's ad hoc tests for multiple comparison was performed on arcsin-transformed percentage data
IgA *vs.* IgM	1e-10	

Supplementary Table 2

Statistical information associated with Figure 2a

Cell type	Treatment and time	Number of cells (*n*) quantified
WT OVCAR3	IgG, 0 min	319
WT OVCAR3	IgG, 15 min	290
WT OVCAR3	IgG, 1 hr	342
WT OVCAR3	IgG, 8 hr	366
WT OVCAR3	IgA, 0 min	348
WT OVCAR3	IgA, 15 min	287
WT OVCAR3	IgA, 1 hr	342
WT OVCAR3	IgA, 8 hr	278
WT OVCAR3	Pep-IgA, 0 min	212
WT OVCAR3	Pep-IgA, 15 min	307
WT OVCAR3	Pep-IgA, 1 hr	321
WT OVCAR3	Pep-IgA, 8 hr	278
PIGR^{CRSIPR} OVCAR3	IgA, 0 min	282
PIGR^{CRSIPR} OVCAR3	IgA, 15 min	260
PIGR^{CRSIPR} OVCAR3	IgA, 1 hr	313
PIGR^{CRSIPR} OVCAR3	IgA, 8 hr	304

Between treatment groups	*P* value	Test performed
WT OVCAR3 IgA_0 min *vs.* WT_OVACR3_IgA_15 min	<0.0001	Unpaired two-tailed t-test
WT_OVCAR3_IgA_15 min *vs.* WT_OVACR3_IgA_1 hr	<0.0001	Unpaired two-tailed t-test
WT_OVACR3_IgA_1 hr *vs.* WT_OVACR3_IgA_8 hr	<0.0001	Unpaired two-tailed t-test
WT_OVCAR3_IgG_8 hr *vs.* WT_OVACR3_IgA_8 hr	<0.0001	Unpaired two-tailed t-test
WT_OVCAR3_IgA_8 hr *vs.* WT_OVACR3_Pep-IgA_8 hr	<0.0001	Unpaired two-tailed t-test
WT_OVCAR3_IgA_8 hr *vs.* PIGR^{CRSIPR} _OVACR3_ IgA_8 hr	<0.0001	Unpaired two-tailed t-test

Statistical information associated with Figure 2f

Effector cell type	Target cell type	Target-effector ratio	*P* value	Test performed
NY-ESO-1-TCR-transduced T-cells	OVCAR3^{Luci}-NY-ESO-1	1:1	0.0127	ordinary one-way ANOVA
NY-ESO-1-TCR-transduced T-cells	OVCAR3^{Luci}-NY-ESO-1	1:10	0.0255	
NY-ESO-1-TCR-transduced T-cells	OVCAR3^{Luci}-NY-ESO-1	1:20	0.0063	
FSH-CER T-cells	OVCAR3^{Luci}	1:1	0.0248	
FSH-CER T-cells	OVCAR3^{Luci}	1:10	0.0006	
FSH-CER T-cells	OVCAR3^{Luci}	1:20	<0.0001	

Supplementary Table 3

Statistical information associated with Figure 3b

Growth curve statistics

Between treatment groups	*P* value	Test performed
Tumour#1: PBS *vs.* iIgA	0.0155	Paired two-tailed t-test
Tumour#1: iIgA *vs.* Ab1	0.0144	Paired two-tailed t-test
Tumour#2: PBS *vs.* iIgA	0.0175	Paired two-tailed t-test
Tumour#2: iIgA *vs.* Ab2	0.0044	Paired two-tailed t-test
Tumour#2: iIgA *vs.* Ab3	0.0061	Paired two-tailed t-test

Tumour weight statistics

Between treatment groups	*P* value	Test performed
Tumour#1: PBS *vs.* iIgA	<0.0001	Unpaired two-tailed t-test
Tumour#1: iIgA *vs.* Ab1	<0.0001	Unpaired two-tailed t-test
Tumour#2: PBS *vs.* iIgA	<0.0001	Unpaired two-tailed t-test
Tumour#2: iIgA *vs.* Ab2	<0.0001	Unpaired two-tailed t-test
Tumour#2: iIgA *vs.* Ab3	<0.0001	Unpaired two-tailed t-test

Supplementary Table 4

Statistical information associated with Figure 3d

Growth curve statistics

Between treatment groups	*P* value	Test performed
iIgA *vs.* iIgG	0.0292	Paired two-tailed t-test
iIgA *vs.* αTSPAN7	0.0177	Paired two-tailed t-test
αTSPAN7 *vs.* αBDNF	0.0064	Paired two-tailed t-test

Tumour weight statistics

Between treatment groups	*P* value	Test performed
iIgA *vs.* iIgG	0.0006	Unpaired two-tailed t-test
iIgA *vs.* αTSPAN7	0.0308	Unpaired two-tailed t-test
iIgA *vs.* αBDNF	0.0465	Unpaired two-tailed t-test

Supplementary Table 5

Statistical information associated with Figure 3f

Growth curve statistics

Between treatment groups	*P* value	Test performed
$F(ab')_2$-αTSPAN7 *vs.* $F(ab')_2$-αBDNF	0.0255	Paired two-tailed t-test
$F(ab')_2$-iIgA *vs.* $F(ab')_2$-iIgG	0.0563	Paired two-tailed t-test

Tumour weight statistics

Between treatment groups	*P* value	Test performed
$F(ab')_2$-αTSPAN7 *vs.* $F(ab')_2$-αBDNF	0.0030	Unpaired two-tailed t-test
$F(ab')_2$-iIgA *vs.* $F(ab')_2$-αBDNF	0.0006	Unpaired two-tailed t-test
$F(ab')_2$-iIgA *vs.* $F(ab')_2$-iIgG	0.6145	Unpaired two-tailed t-test
$F(ab')_2$-iIgA *vs.* $F(ab')_2$-αTSPAN7	0.3231	Unpaired two-tailed t-test

Supplementary Table 6

Statistical information associated with Figure 4a

Growth curve statistics

Between treatment groups	*P* value	Test performed
iIgA *vs.* PBS	0.0067	Paired two-tailed t-test
iIgA *vs.* αTSPAN7	0.1504	Paired two-tailed t-test

Tumour weight statistics

Between treatment groups	*P* value	Test performed
iIgA *vs.* PBS	<0.0001	Unpaired two-tailed t-test
iIgA *vs.* αTSPAN7	0.4336	Unpaired two-tailed t-test

Supplementary Table 7

Statistical information associated with Figure 4b

Growth curve statistics

Between treatment groups	*P* value	Test performed
iIgA *vs.* PBS	0.0197	Paired two-tailed t-test
iIgA *vs.* αTSPAN7	0.0140	Paired two-tailed t-test
iIgA *vs.* αTSPAN7+αNK1.1	0.0175	Paired two-tailed t-test

Tumour weight statistics

Between treatment groups	*P* value	Test performed
iIgA *vs.* PBS	<0.0001	Unpaired two-tailed t-test
iIgA *vs.* αTSPAN7	0.0004	Unpaired two-tailed t-test
αTSPAN7 *vs.* αTSPAN7+αNK1.1	0.9119	Unpaired two-tailed t-test

Supplementary Table 8

Statistical information associated with Figure 4d

Between treatment groups	*P* value	Test performed
Uncoated:with-αCD351^{Neut} *vs.* Uncoated:no-αCD351^{Neut}	0.8115	Unpaired two-tailed t-test
αTSPAN7^{coated}:with-αCD351^{Neut} *vs.* αTSPAN7^{coated}:no-αCD351^{Neut}	0.0244	Unpaired two-tailed t-test

Statistical information associated with Figure 4e

Between treatment groups	*P* value	Test performed
PBS *vs*. iIgA	0.0036	Unpaired two-tailed t-test
iIgA *vs.* αTSPAN7	0.0132	Unpaired two-tailed t-test
αTSPAN7 *vs.* αTSPAN7+αNK1.1	0.6264	Unpaired two-tailed t-test

Supplementary Table 9

Statistical information associated with Figure 4f

Growth curve statistics

Between treatment groups	*P* value	Test performed
WT:iIgA *vs.* WT:PBS	0.0068	Paired two-tailed t-test
WT:iIgA *vs.* CR:IgA	0.0015	Paired two-tailed t-test
WT:αBDNF *vs.* CR:αBDNF	0.0107	Paired two-tailed t-test
WT:αTSPAN7 *vs.* CR:αTSPAN7	0.0080	Paired two-tailed t-test
WT:PBS *vs.* CR:PBS	0.1143	Paired two-tailed t-test
WT:PBS *vs.* CR:iIgA	0.9062	Paired two-tailed t-test

Tumour weight statistics

Between treatment groups	*P* value	Test performed
WT:iIgA *vs.* CR:iIgA	0.0266	Unpaired two-tailed t-test
WT:αBDNF *vs.* CR:αBDNF	0.7354	Unpaired two-tailed t-test
WT:αTSPAN7 *vs.* CR:αTSPAN7	0.0009	Unpaired two-tailed t-test
WT:PBS *vs.* CR:PBS	0.8425	Unpaired two-tailed t-test
CR:PBS *vs.* CR:iIgA	0.8637	Unpaired two-tailed t-test

Supplementary Table 10

Patient Derived specimens			
Specimen type	**ID**	**Experiment**	**Description**
Solid tumours	S1	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S2	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S3	FACS	High grade Serous Ovarian Cancer
Solid tumours	S4	FACS	High grade Serous Ovarian Cancer
Solid tumours	S5	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S6	FACS	High grade Serous Ovarian Cancer
Solid tumours	S7	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S8	FACS	High grade Serous Ovarian Cancer
Solid tumours	S9	FACS	High grade Serous Ovarian Cancer
Solid tumours	S10	FACS, BCR sequencing	High grade Serous Ovarian Cancer
Solid tumours	S11	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S12	FACS	High grade Serous Ovarian Cancer
Solid tumours	S13	FACS	High grade Serous Ovarian Cancer
Solid tumours	S14	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S15	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S16	FACS	High grade Serous Ovarian Cancer
Solid tumours	S17	FACS	High grade Serous Ovarian Cancer
Solid tumours	S18	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S19	FACS	High grade Serous Ovarian Cancer
Solid tumours	S20	FACS	High grade Serous Ovarian Cancer
Solid tumours	S21	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S22	FACS, B cell immortalization	High grade Serous Ovarian Cancer
Solid tumours	S23	FACS	High grade Serous Ovarian Cancer
Solid tumours	S24	FACS	High grade Serous Ovarian Cancer
Solid tumours	S25	FACS	High grade Serous Ovarian Cancer
Solid tumours	S26	FACS	High grade Serous Ovarian Cancer
Solid tumours	S27	FACS	High grade Serous Ovarian Cancer
Solid tumours	S28	FACS	High grade Serous Ovarian Cancer
Solid tumours	S29	FACS, BCR sequencing	High grade Serous Ovarian Cancer
Ascites	A1	Co-Immunoprecipitation	High grade Serous Ovarian Cancer
Ascites	A2	Co-Immunoprecipitation	High grade Serous Ovarian Cancer
FFPE-TMA	MCC1	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC2	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC3	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC4	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC5	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC6	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC7	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC8	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC9	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC10	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC11	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC12	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC13	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC14	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
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FFPE-TMA	MCC41	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC42	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	MCC43	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
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FFPE-TMA	NHS96	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS97	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS98	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS99	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS100	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS101	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS102	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS103	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS104	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS105	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS106	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS107	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS108	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS109	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS110	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS111	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS112	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS113	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer

FFPE-TMA	NHS114	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS115	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS116	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS117	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS118	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS119	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS120	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS121	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS122	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS123	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS124	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS125	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS126	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS127	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS128	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS129	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS130	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS131	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS132	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS133	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS134	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS135	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS136	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS137	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS138	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS139	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS140	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS141	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS142	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS143	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS144	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS145	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS146	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS147	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS148	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS149	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS150	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS151	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS152	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS153	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS154	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS155	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS156	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS157	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS158	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS159	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS160	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS161	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS162	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS163	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS164	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS165	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS166	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer

FFPE-TMA	NHS167	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS168	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS169	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS170	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS171	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS172	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS173	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS174	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS175	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS176	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS177	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS178	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS179	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS180	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS181	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS182	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS183	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS184	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS185	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS186	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS187	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS188	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
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FFPE-TMA	NHS191	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
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FFPE-TMA	NHS193	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
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FFPE-TMA	NHS195	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
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FFPE-TMA	NHS212	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
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FFPE-TMA	NHS218	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS219	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer

FFPE-TMA	NHS220	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
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FFPE-TMA	NHS226	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
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FFPE-TMA	NHS256	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS257	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS258	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS259	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS260	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer
FFPE-TMA	NHS261	Multiplex Immunofluorescence	High grade Serous Ovarian Cancer

Supplementary Table 11

Statistical information associated with Extended data figure 6e

Cell type	Treatment	Number of cells (*n*) quantified
WT OVCAR3	αTSPAN7	338
PIGR^{CRSIPR} OVCAR3	αTSPAN7	319
WT OVCAR3	αBDNF	400
PIGR^{CRSIPR} OVCAR3	αBDNF	346
WT OVCAR3	iIgA	244
PIGR^{CRSIPR} OVCAR3	iIgA	311
WT OVCAR3	iIgG	420

Between treatment groups	*P* value	Test performed
WT: **α**TSPAN7 *vs.* PIGR^{CRISPR}: **α**TSPAN7	<0.0001	Unpaired two-tailed t-test
WT: **α**BDNF *vs.* PIGR^{CRISPR}: **α**BDNF	<0.0001	Unpaired two-tailed t-test
WT:iIgA *vs.* PIGR^{CRISPR}:iIgA	<0.0001	Unpaired two-tailed t-test

Supplementary Table 12

Statistical information associated with Extended data figure 6g

Growth curve statistics

Between treatment groups	*P* value	Test performed
Tumour#1: $PIGR^{+}$:PBS *vs.* $PIGR^{+}$:iIgA	0.0155	Paired two-tailed t-test
Tumour#1: $PIGR^{+}$:iIgA *vs.* $PIGR^{+}$:Ab1	0.0144	Paired two-tailed t-test
Tumour#1: $PIGR^{+}$:Ab1 *vs.* $PIGR^{CRISPR}$:Ab1	0.0172	Paired two-tailed t-test
Tumour#1: $PIGR^{+}$:iIgA *vs.* $PIGR^{CRISPR}$:iIgA	0.0125	Paired two-tailed t-test
Tumour#1: $PIGR^{CRISPR}$:iIgA *vs.* $PIGR^{CRISPR}$:Ab1	0.0120	Paired two-tailed t-test
Tumour#2: $PIGR^{+}$:PBS *vs.* $PIGR^{+}$:iIgA	0.0175	Paired two-tailed t-test
Tumour#2: $PIGR^{+}$:iIgA *vs.* $PIGR^{+}$:Ab2	0.0044	Paired two-tailed t-test
Tumour#2: $PIGR^{+}$:iIgA *vs.* $PIGR^{+}$:Ab3	0.0061	Paired two-tailed t-test
Tumour#2: $PIGR^{+}$:iIgA *vs.* $PIGR^{CRISPR}$:iIgA	0.0155	Paired two-tailed t-test
Tumour#2: $PIGR^{+}$:Ab2 *vs.* $PIGR^{CRISPR}$	0.0113	Paired two-tailed t-test
Tumour#2: $PIGR^{+}$:Ab3 *vs.* $PIGR^{CRISPR}$	0.0089	Paired two-tailed t-test
Tumour#2: $PIGR^{CRISPR}$:iIgA *vs.* $PIGR^{CRISPR}$	0.0095	Paired two-tailed t-test
Tumour#2: $PIGR^{CRISPR}$:iIgA *vs.* $PIGR^{CRISPR}$	0.0107	Paired two-tailed t-test

Tumour weight statistics

Between treatment groups	*P* value	Test performed
Tumour#1: $PIGR^{+}$:iIgA *vs.* $PIGR^{+}$:Ab1	<0.0001	Unpaired two-tailed t-test
Tumour#1: $PIGR^{+}$:iIgA *vs.* $PIGR^{CRISPR}$:iIgA	<0.0001	Unpaired two-tailed t-test
Tumour#1: $PIGR^{+}$:Ab1 *vs.* $PIGR^{CRISPR}$:Ab1	<0.0001	Unpaired two-tailed t-test
Tumour#1: $PIGR^{CRISPR}$:iIgA *vs.* $PIGR^{CRISPR}$:Ab1	<0.0001	Unpaired two-tailed t-test
Tumour#2: $PIGR^{+}$:PBS *vs.* $PIGR^{+}$:iIgA	<0.0001	Unpaired two-tailed t-test
Tumour#2: $PIGR^{+}$:iIgA *vs.* $PIGR^{+}$:Ab2	<0.0001	Unpaired two-tailed t-test
Tumour#2: $PIGR^{+}$:iIgA *vs.* $PIGR^{+}$:Ab3	<0.0001	Unpaired two-tailed t-test
Tumour#2: $PIGR^{+}$:Ab2 *vs.* $PIGR^{CRISPR}$:Ab2	<0.0001	Unpaired two-tailed t-test
Tumour#2: $PIGR^{+}$:Ab3 *vs.* $PIGR^{CRISPR}$:Ab3	<0.0001	Unpaired two-tailed t-test
Tumour#2: $PIGR^{CRISPR}$:iIgA *vs.* $PIGR^{CRISPR}$:Ab2	<0.0001	Unpaired two-tailed t-test
Tumour#2: $PIGR^{CRISPR}$:iIgA *vs.* $PIGR^{CRISPR}$:Ab3	<0.0001	Unpaired two-tailed t-test