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SUPPLEMENTARY INFORMATION

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Loss of p53 triggers WNT-dependent systemic inflammation to drive breast cancer metastasis

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Supplemental Table 1. List of antibodies used for flow cytometry, western blotting, immunohistochemistry and chromatin immunoprecipitation.

Flow cytometry					
Antigen	Fluorochrome	Clone	Company	Catalogue number	Dilution
CD45	eFluor 605NC BUV395	30-F11	eBioscience/ThermoFisher BD Biosciences	93-0451 564279	1:100 1:200
CD11b	BV650 APC APC-eFluor 780	M1/70	BioLegend eBioscience/ThermoFisher	101239 17-0112-81 47-0112-82	1:400
Ly6G	APC FITC	1A8	eBioscience/ThermoFisher BD Biosciences	17-9668-82 561105	1:400
Ly6C	eFluor 450	HK1.4	eBioscience/ThermoFisher	48-5932-82	1:400
F4/80	APC-eFluor 780 APC FITC	BM8	eBioscience/ThermoFisher	47-4801-82 17-4801-82 11-4801-82	1:400
cKIT	PE PE-Cy7	2B8	eBioscience/ThermoFisher	12-1171-82 25-1171-82	1:200
CD3	PE-Cy7	145-2C11	eBioscience/ThermoFisher	25-0031-82	1:200
CD4	APC-eFluor 780	GK1.5	eBioscience/ThermoFisher	47-0041-82	1:200
CD8	APC-eFluor 780 PerCP-eFluor 710	53-6.7	eBioscience/ThermoFisher	47-0081-82 46-0081-82	1:400
γδ TCR	FITC	GL3	BD Biosciences	553177	1:400
CD19	APC-eFluor 780	eBio1D3	eBioscience/ThermoFisher	47-0193-82	1:200
CD34	eFluor 450	RAM34	eBioscience/ThermoFisher	48-0341-82	1:100
CD16/32	PerCP-eFluor 710	93	eBioscience/ThermoFisher	46-0161-82	1:200
Sca-1	PE	D7	eBioscience/ThermoFisher	12-5981-82	1:100
CD45R	APC-eFluor 780	RA3-6B2	eBioscience/ThermoFisher	47-0452-82	1:200
CD5	APC-eFluor 780	53-7.3	eBioscience/ThermoFisher	47-0051-82	1:200

CD127	APC-eFluor 780	A7R34	eBioscience/ThermoFisher	47-1271-82	1:200
Ter119	APC-eFluor 780	TER-119	eBioscience/ThermoFisher	47-5921-82	1:200
CCR2	AF700	475301	R&D Systems	FAB5538N	1:200
CCR6	BV421	29-2L17	BioLegend	129817	1:200
CD206	AF488	MR5D3	AbD Serotec/Bio-Rad	MCA2235	1:200
CSF-1R	PE	AFS98	eBioscience/ThermoFisher	12-1152-82	1:200
CXCR4	PerCP-eFluor 710	2B11	eBioscience/ThermoFisher	46-9991-82	1:200
MHC-II	APC-eFluor 780	M5/114.15.2	eBioscience/ThermoFisher	47-5321-82	1:200
CD68	BV421	Y1/82A	BD Biosciences	564943	1:200
CD14	BUV737	M5E2	BD Biosciences	564444	1:400
CD206	FITC	15-2	BioLegend	321103	1:200
CD168	APC	GHI/61	BioLegend	333609	1:200
HLA-DR	BV650	G46-6	BD Biosciences	564231	1:200

Western blotting

Antigen	**Fluorochrome**	**Clone**	**Company**	**Catalogue number**	**Dilution**
p53	-	1C12	Cell Signalling	2524	1:1000
p21	-	SX118	BD Biosciences	556430	1:1000
Wnt1	-	10C8	EMD Millipore	MABD168	1:1000
Wnt6	-	Polyclonal (EPR9244)	Abcam	Ab154144	1:1000
Wnt7a	-	Polyclonal	Novus Biologicals	NBP2-20913	1:1000
Porcupine		Polyclonal	Novus Biologicals	NBP1-79322	1:1000
Non-phospho- β-catenin	-	8E7	EMD Millipore	05-665	1:1000
β-actin	-	D6A8 A1978	Cell Signalling Sigma	8457 A2228	1:5000 1:5000
GAPDH	-	6C5	HyTest	5G4	1:5000
Donkey-anti-mouse IgG	IRDye 680RD		LiCor	926-68072	1:10000

Donkey-anti-rabbit IgG	IRDye 800CW		LiCor	926-32213	1:10000
Immunohistochemistry					
Antigen	**Antigen retrieval**	**Clone**	**Company**	**Catalogue number**	**Dilution**
Ly6G	Proteinase K 20 µg/ml	1A8	BD Biosciences	551459	1:150
F4/80	Proteinase K 20 µg/ml	CI:A3-1	AbD Serotec/Bio-Rad	MCA497GA	1:400
CD8	Tris/EDTA pH 9.0	4SM15	eBioscience/ThermoFisher	14-0808-82	1:2000
CD4	Tris/EDTA pH 9.0	4SM95	eBioscience/ThermoFisher	14-9766-82	1:1000
Foxp3	Citrate buffer	FJK-16s	eBioscience/ThermoFisher	14-5773-82	1:400
Cytokeratin-8	Citrate buffer	Troma-I	DSHB University of Iowa	TROMA-I	1:600
Goat-anti-Rat IgG	-	3052-08	SouthernBiotech	3052-08	1:100
Chromatin immunoprecipitation					
Antigen	**Amount used**	**Clone**	**Company**	**Catalogue number**	
p53	5 µg	1C12	Cell Signalling	2524	

Supplemental Table 2. RT-qPCR primers.

Mouse		
Gene	**Forward (5' – 3')**	**Reverse (5' – 3')**
Wnt1	GAACCCTTTTGCCATCCTGA	CACCTTCAAGAGTTGACCTC
Wnt6	GCA GACTGGGG GTTCGAG	CCTGACAACCACACTGTAGGAG
Wnt7a	GGCTTCTCTTCGGTGGTAGC	TGAAACTGACACTCGTCCAGG
Il1b	CAACCAACAAGTGATATTCTCCATG	GATCCACACTCTCCAGCTGCA
Porcn	TGGAGTTCATGGGCTACCTCT	CGTTTCTTGTTGCGAAGGAGT
Actb	CCTCATGAAGATCCTGACCGA	TTTGATGTCACGCACGATTTC
Gapdh	AGGTCGGTGTGAACGGATTTG	TGTAGACCATGTAGTTGAGGTCA
Human		
Gene	**Forward (5' – 3')**	**Reverse (5' – 3')**
IL1B	AATCTGTACCTGTCCTGCGTGTT	TGGGTAATTTTTGGGATCTACACTCT
ACTB	CATGTACGTTGCTATCCAGGC	CTCCTTAATGTCACGCACGAT

Supplementary Figure 1. Uncropped scans with marker size indications

Fig. 3c. Same membranes are indicated by dashed box. Membranes were co-incubated with donkey-anti-mouse IgG-IRDye 680RD and donkey-anti-rabbit IgG-IRDye 800CW secondary antibodies.

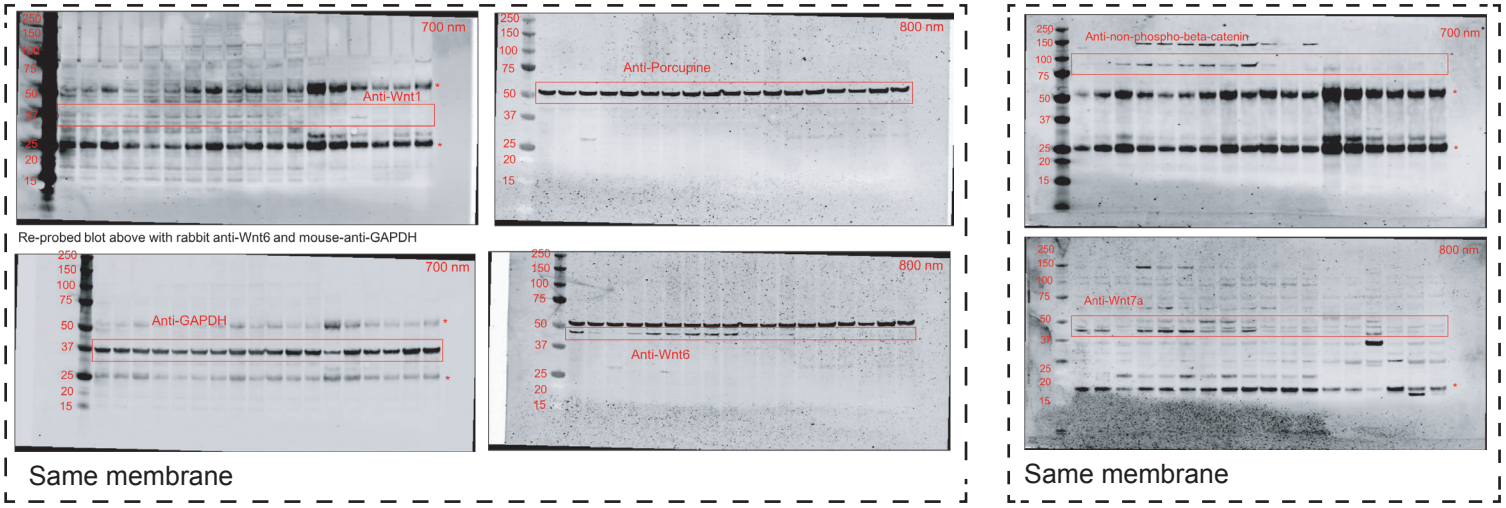
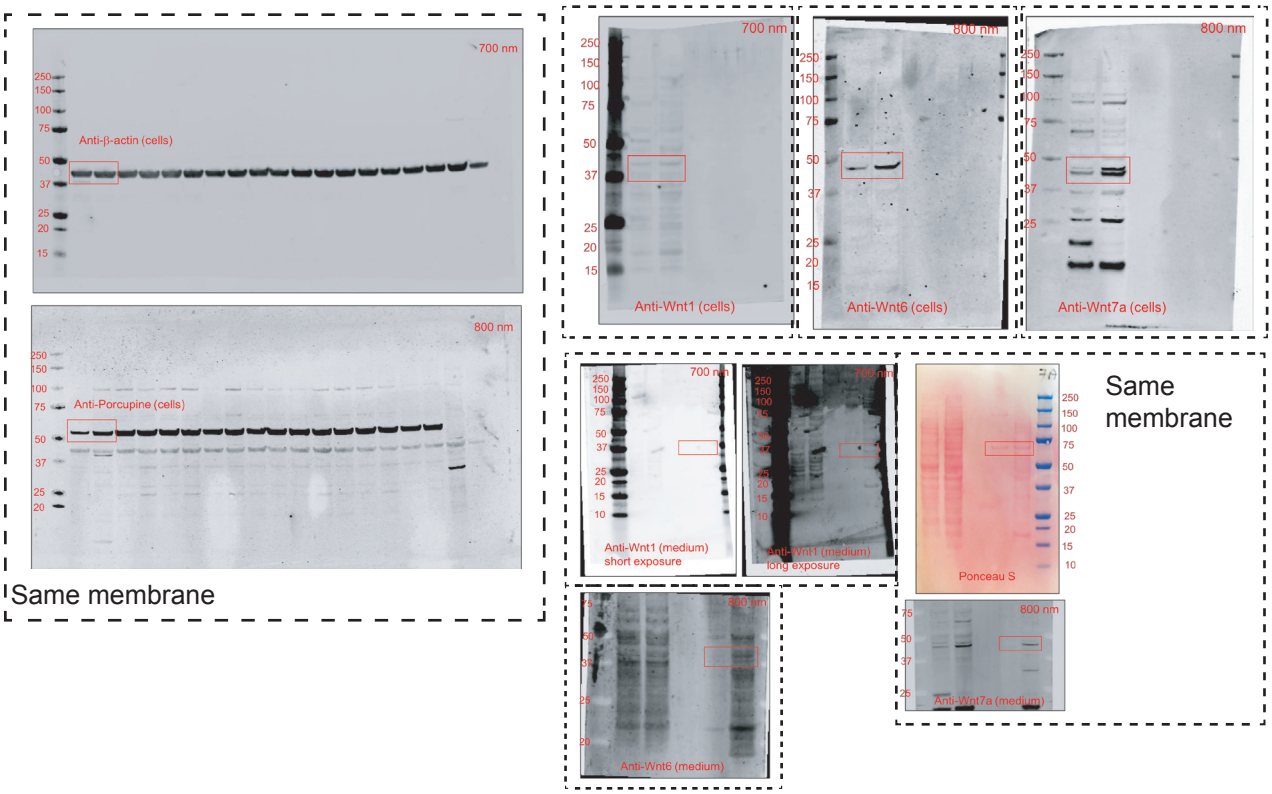
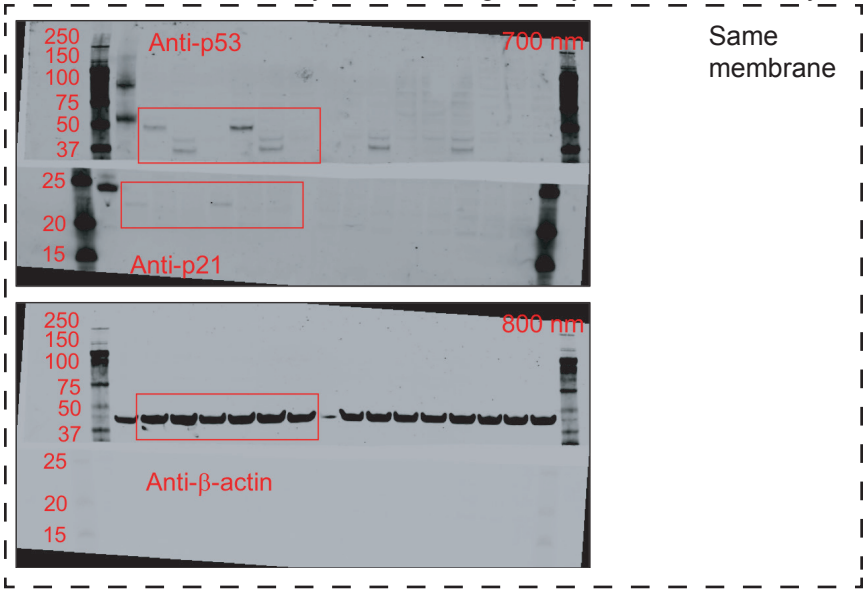


Fig. 3f. Same membranes are indicated by dashed box. Membranes were co-incubated with donkey-anti-mouse IgG-IRDye 680RD and donkey-anti-rabbit IgG-IRDye 800CW secondary antibodies, or with either of the two secondary antibodies individually. For Wnt6 and Wnt7a on medium, a selection of the gel was scanned. Image shows full scan.



Extended Data Fig. 2b. Same membranes are indicated by dashed box. Membrane was cut, upper membrane was co-incubated with donkey-anti-mouse IgG-IRDye 680RD and donkey-anti-rabbit IgG-IRDye 800CW secondary antibodies. Bottom membrane was incubated with donkey-anti-mouse IgG-IRDye 680RD secondary antibody.