

Table SI. List of antibodies used.

Antibodies	Supplier	Cat. no.	Dilution WB	Dilution IHC
Mouse monoclonal anti-p53	Santa Cruz Biotechnology, Inc.	sc-263	1/1000	1/200
Mouse monoclonal anti-SMAD4	Affinity Biosciences	BF1003	1/1000	1/100
Rabbit Polyclonal anti-CDKN2A	ProteinTech Group, Inc.	10883-1-AP	1/500	1/100
Rabbit monoclonal anti-E-Cadherin	Cell Signaling Technology, Inc.	3195	1/1000	1/400
Rabbit Polyclonal anti-Vimentin	ProteinTech Group, Inc.	10366-1-AP	1/1000	1/1000
Rabbit monoclonal anti-HER2	Cell Signaling Technology, Inc.	4290	1/1000	-
Rabbit monoclonal anti-EGFR	Abcam	ab52894	1/1000	-
Rabbit monoclonal anti-c-Met	Epitomics; Abcam	1996-1	1/1000	-
Rabbit monoclonal anti-PD-L1	Cell Signaling Technology, Inc.	13684	1/1000	-
Rabbit monoclonal anti- β -Actin	Cell Signaling Technology, Inc.	4970	1/1000	-
Rabbit monoclonal anti-ERK1 +ERK2	Abcam	ab184699	1/1000	-
Rabbit monoclonal anti-p44/42 ERK1/2	Cell Signaling Technology, Inc.	4695	1/1000	-
Rabbit monoclonal anti-c-MYC	Epitomics; Abcam	1472-1	1/1000	-
Rabbit monoclonal anti-Bcl-2	Abcam	ab182858	1/1000	-
Anti-rabbit IgG, HRP-linked Antibody	Cell Signaling Technology, Inc.	7074	1/5000	
Anti-mouse IgG, HRP-linked Antibody	Cell Signaling Technology, Inc.	7076	1/5000	

WB, western blotting; IHC, immunohistochemistry; CDKN2A, cyclin-dependent kinase inhibitor 2A; EGFR, epidermal growth factor receptor; PD-L1, programmed cell death 1 ligand 1.

Table SII. List of primers used.

Genes	Primer sequences (5'-3')
EpCAM	Forward: GTGTGTGAACACTGCTGGGG Reverse: CTGAAGTGCAGTCCGCAAACCT
E-Cadherin	Forward: GGCTGGACCGAGAGAGTTTCC Reverse: CGTTCTCAGGCACCTGACCC
CK19	Forward: ATTGAACCGGGAGGTCGCTG Reverse: TTCCAAGGCAGCTTTCATGCTC
Vimentin	Forward: GGAAGGCGAGGAGAGCAGGATTT Reverse: TTCAAGGTCATCGTGATGCTGAGA
Snail	Forward: CGGCCTAGCGAGTG GTTCTT Reverse: GGCTGCTGGAAGGTAAACTCTGG
CD133	Forward: CAGCTACTTGGCTCAGACTGGT Reverse: GGAAGGACTCGTTGCTGGTG
CD44	Forward: AGCACAATCCAGGCAACTCCTA Reverse: GGCTGGTATGAGCTGAGGCTG
ALDH-1	Forward: TGCTCTCCACGTGGCATCTTT Reverse: TTGCCAACCTCTGTTGATCCTGT
VEGFA	Forward: TAATGCCCTGGAGCCTCCCT Reverse: GGCTTGTCACATCTGCAAGTACG
c-Met	Forward: TTGGGACATCAGAGGGTCGC Reverse: GGGATCTTCGTGATCTTCTCCCA
GAPDH	Forward: CTTAGCACCCCTGGCCAAG Reverse: GATGTTCTGGAGAGCCCCG

ALDH-1, aldehyde dehydrogenase 1; VEGFA, vascular endothelial growth factor A; EpCAM, epithelial cell adhesion molecule; CK19, keratin 19.

Table SIII. List of therapeutic compounds used.

Drug name	Supplier	Cat. no.	Max concentration ^a
5-Fu	Selleck Chemicals	S1209	50 μ M
Gemcitabine	Selleck Chemicals	S1149	1 μ M
Cisplatin	Selleck Chemicals	S1166	200 μ M
Trastuzumab	MedChemExpress	HY-P9907	100 μ g/ml
Olaparib	Selleck Chemicals	S1060	50 μ M
Vemurafenib	Selleck Chemicals	S1267	25 μ M
Trametinib	Selleck Chemicals	S2673	2.5 μ M

^aThe maximum screening concentration of the drug used. 5-Fu, 5-fluorouracil.