Antibody Validation Report

I. Target Information

Target name	Cellular tumor antigen p53
HGNC ID	HGNC:11998
UniProt accession number (reference multiple if applicable)	P04637

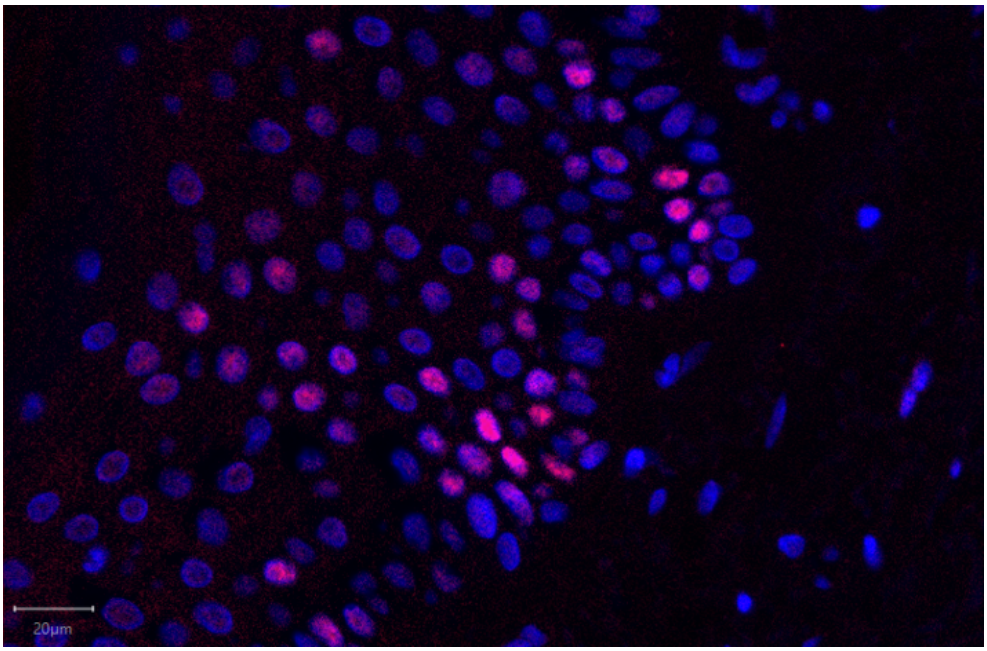
II. Antibody Information

RRID	AB_2206626
Host	Mouse
Isotype	IgG2b
Clonality	DO-7
Vendor	Dako
Catalog number	M7001
Recombinant (Y/N)	N
Tissue preservation method	FFPE
Organ or tissue used for validation	Skin
Antibody-based imaging method	Cell DIVE
Conjugate	Cy5
Author ORCID	0000-0001-7524-8260
Vendor Affiliation	

Additional antibody information (optional)

OMAP ID	
Lot number	20082640
Antigen retrieval details	pH 6, pH 9
Manuscript citation DOI	dx.doi.org/10.1101/2022.03.30.486438
Validation protocol DOI	dx.doi.org/10.17504/protocols.io.bpyxmpxn

III. Exemplary Image from HuBMAP



Caption: Cell DIVE image of p53 (red) and DAPI (blue) in human skin.

IV. Validation Data

a. Vendor Validation

Data sheet URL	Link
Date accessed	8/29/2022
Vendor suggested use	SDS-PAGE, WB, IHC

b. Laboratory Validation

Controls used – check those that apply

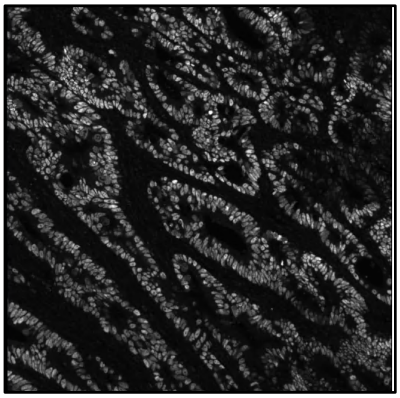
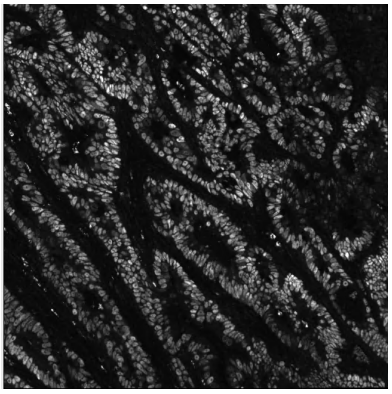
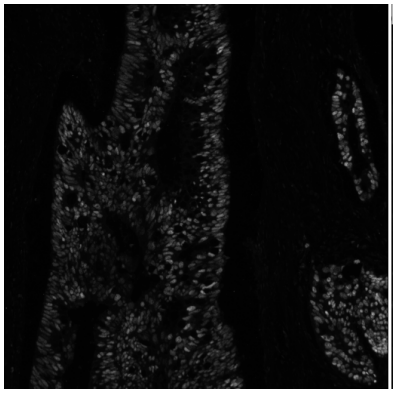
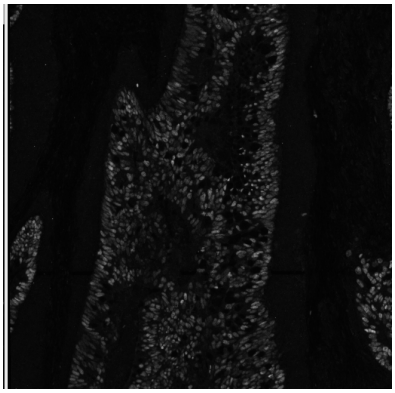
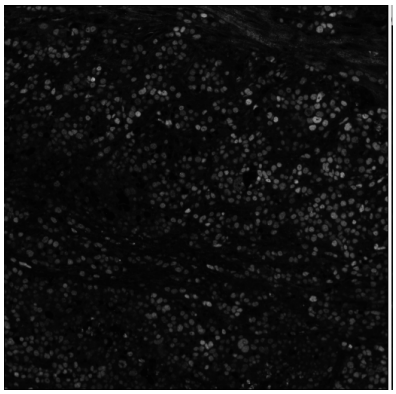
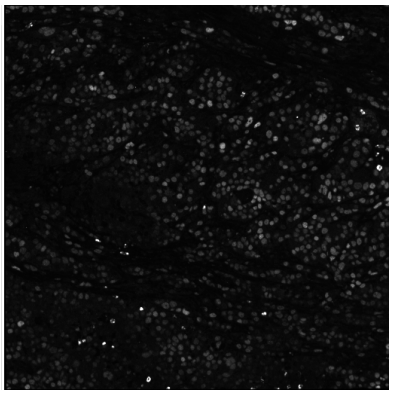
Positive/negative control tissues	Isotype control	Peptide block	Phosphatase treatment	Cell line controls	Other (please list)
multi tissue TMA including skin and 12 other organs, normal and cancerous	x				

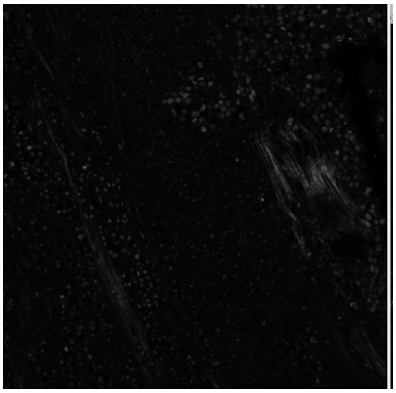
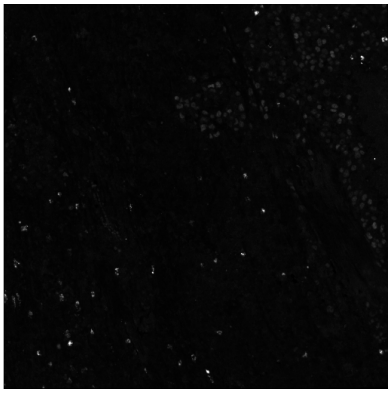
Other antibodies tested?

Vendor and catalog number	Clonality	Backup clone or not recommended
Thermo MS-738-PABX	DO-7 + BP53-12	Not recommended, high background
Santa Cruz sc-126 AF647	DO-1	Not recommended
Cell Signaling Technology 2527S	7F5	Backup clone

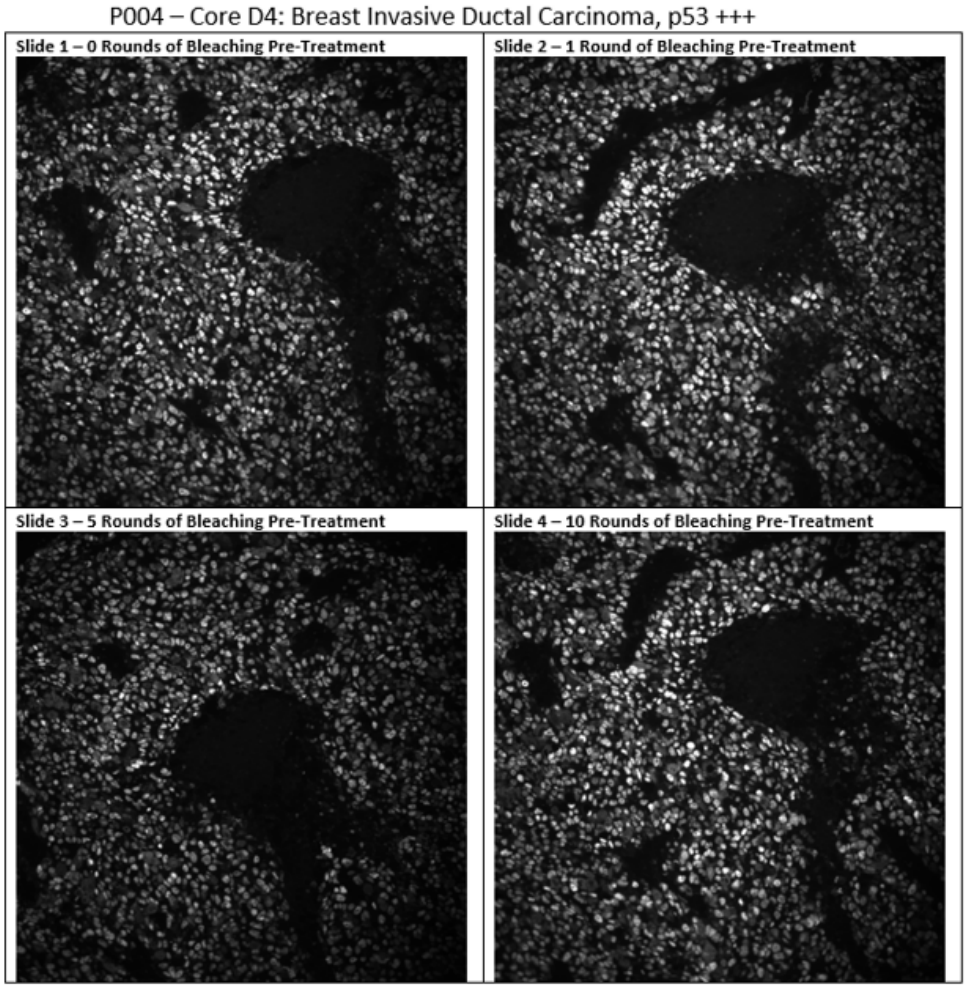
Supplemental Data:

i. Primary characterization

Description	Predicted p53 expression	p53 (Dako M7001, clone DO-7) at 5 µg/mL, 0-65,000	Alexa647-p53 (Santa Cruz sc 47698 A647) at 10 µg/mL, 0-22,000
Strong p53 expresser, colon adenocarcinoma grade II	3.3~3.5		
Moderate p53 expresser, colon adenocarcinoma grade II	2.5~3.0		
Moderate p53 expresser, colon adenocarcinoma grade III	1.5~2.2		

Weak/nil p53 expresser; normal colon	0~0.5		

ii. Antigen effects (if applicable)



iii. Direct conjugation (if applicable)

Region 2, old, sun exposed
0-50,000 for P/S, 0-5000 for DC

p53 (Santa Cruz sc 47698, clone DO-7) at 5 µg/mL	Cy5-p53 (DC22021, D:P 1.6) at 2.5 µg/mL