

# 53BP1 Polyclonal Antibody, DyLight™ 650

## Product Details

Size	100 µL
Species Reactivity	Bat, Bovine, Dog, Human, Mouse, Rodent, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	DyLight™ 650
Excitation/Emission Max	651/673 nm
Immunogen	The epitope recognized by this antibody maps to a region between residues 1925 and the C-terminus (residue 1972) of human tumor protein p53 binding protein 1 using the numbering given in entry NP_005648.1.
Form	Liquid
Concentration	0.8 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	50mM sodium borate
Contains	0.05% sodium azide
Storage conditions	4° C, store in dark
RRID	AB_11153828

Applications	Tested Dilution	Publications
Western Blot (WB)	1:200-1:10,000	-
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	1:200-1:1,000	-
Flow Cytometry (Flow)	Assay-Dependent	-

## Product Specific Information

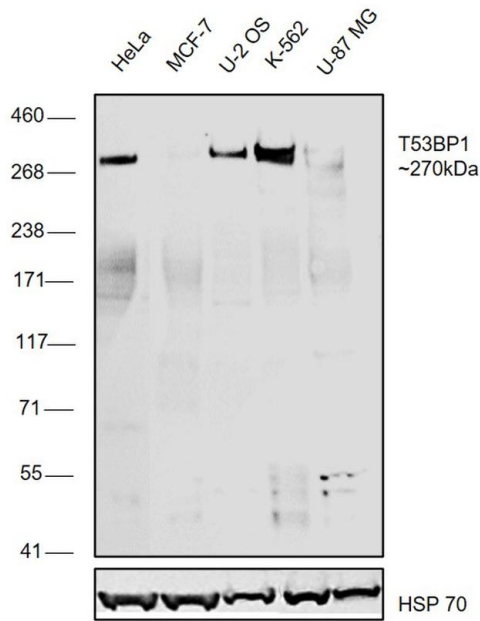
Human samples have been tested in Western Blot and ICC/IF, and mouse samples have been tested in ICC/IF only.

Suggested positive control: U205, 293T, and MO59K cell lysates and MEF lysates .

Product Images For 53BP1 Polyclonal Antibody, DyLight™ 650

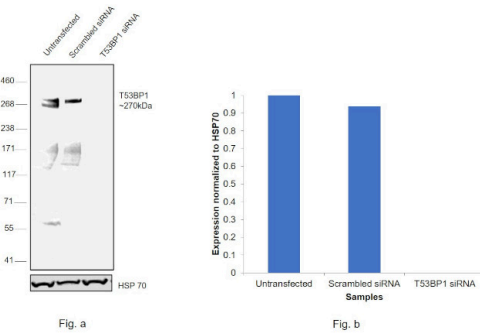
53BP1 Antibody (PA5-22758) in WB

Western blot was performed using Anti-53BP1 Polyclonal Antibody, DyLight 650 (Product # PA5-22758) and a ~270 kDa band corresponding to TP53-binding protein 1 was observed across cell lines tested. Nuclear enriched extracts (50 µg lysate) of HeLa (Lane 1), MCF7 (Lane 2), U-2 OS (Lane 3), K-562 (Lane 4), U-87 MG (Lane 5) were electrophoresed using NuPAGE™ 3-8% Tris-Acetate Protein Gel (Product # EA0378BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB24001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). A streak like pattern was observed in the positive cell lines as expected of 53BP1 target.



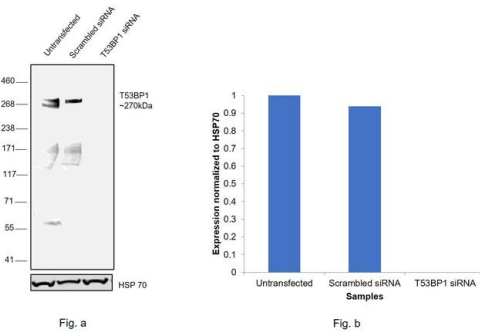
53BP1 Antibody (PA5-22758)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with TP53-binding protein 1 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-53BP1 Polyclonal Antibody, DyLight 650 (Product # PA5-22758). {KD}



53BP1 Antibody (PA5-22758) in WB

Knockdown of TP53-binding protein 1 was achieved by transfecting HeLa with TP53-binding protein 1 specific siRNAs (Silencer® select Product # s14315, s14314). Western blot analysis (Fig. a) was performed using Nuclear enriched extracts from the TP53-binding protein 1 knockdown cells (lane 3), non-targeting scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with 53BP1 Polyclonal Antibody, DyLight 650 (Product # PA5-22758, 1:1000 dilution ) and Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to TP53-binding protein 1. A streak like pattern was observed in the positive cell lines as expected of 53BP1 target.



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