

Catalog Number	PA-RR 000020
Batch Number(s):	PA-B-0001-RR-53BP1
Product Name	Rabbit anti-Human 53BP1 Recombinant Monoclonal (BLR041P)

PRODUCT SPECIFICATION

Host	Rabbit
Colonicity	Recombinant Monoclonal
Subclass	IgG
Immunogen	53BP1 Protein in a region between residue 985 and 1035, referencing both Uniprot ID Q12888 and Gene ID 7158
Conjugate	Unconjugated
Form	Liquid
Concentration	1.00 mg/mL
Purification	Affinity chromatography
Storage Buffer	Phosphate Buffer Saline, 10mM, pH 7.4
Preservative	Azide
Cryopreservative	Glycerol
Storage conditions	4°C. Avoid freeze/thaw cycles

APPLICATIONS

Western Blotting	1:250-1:1000
Immunocytochemistry / Microscopy	1:250-1:1000

PRODUCT DESCRIPTION

53BP1 (P53-binding protein 1) is crucial in the DNA damage response (DDR), specifically for repairing double-strand breaks (DSBs). It binds to γ -H2AX, localizing to damage sites and recruiting repair proteins. 53BP1 promotes non-homologous end joining (NHEJ) by aligning DNA ends and inhibiting end resection, favoring NHEJ over homologous recombination in the G1 phase. It amplifies DNA damage signaling and has tumor suppressive properties, playing a vital role in maintaining genomic stability.

Uniprot ID	Q12888
Gene ID	7158
Gene Symbol	53BP1
Gene Aliases	53BP1; p202; p53-binding protein 1; p53BP1; TDRD30; TP53-binding protein 1; tumor protein 53-binding protein, 1; tumor suppressor p53-binding protein 1

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