

53BP1 (PT0456R) PT™ Rabbit mAb

CatalogNo: YM8293 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA, CHIP, Cut&Tag

MW

- 214kD
(Calculated)
450kD
(Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:2000-1:10000

IHC 1:200-1:1000

IF 1:200-1:1000

ELISA 1:5000-1:20000

CHIP 1:50-1:100

Cut&Tag 1:50-1:100

Basic Information

Clonality Monoclonal**Clone Number** PT0456R

Immunogen Information

Specificity Endogenous

Target Information

Gene name TP53BP1

Protein Name Tumor suppressor p53-binding protein 1

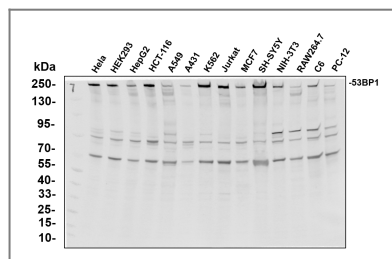
Organism	Gene ID	UniProt ID
Human	7158 ;	Q12888 ;
Mouse	27223 ;	P70399 ;

Cellular Localization Nucleus

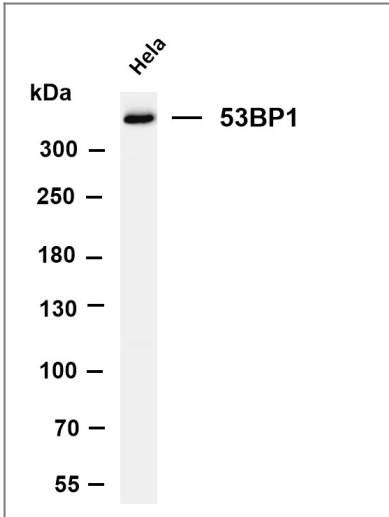
Tissue specificity Cerebellum,Cervix,Epithelium,Myeloid leukemia cell,Skeletal muscle,

Function Function:May have a role in checkpoint signaling during mitosis (By similarity). Enhances TP53-mediated transcriptional activation. Plays a role in the response to DNA damage.,PTM:Asymmetrically dimethylated on Arg residues by PRMT1. Methylation is required for DNA binding.,PTM:Phosphorylated at basal level in the absence of DNA damage. Hyper-phosphorylated in an ATM-dependent manner in response to DNA damage induced by ionizing radiation. Hyper-phosphorylated in an ATR-dependent manner in response to DNA damage induced by UV irradiation.,similarity:Contains 2 BRCT domains.,subcellular location:Associated with kinetochores. Both nuclear and cytoplasmic in some cells. Recruited to sites of DNA damage, such as double strand breaks. Methylation of histone H4 at 'Lys-20' is required for efficient localization to double strand breaks.,subunit:Interacts with IFI202A (By similarity). Binds to the central domain of TP53/p53. May form homo-oligomers. Interacts with DCLRE1C. Interacts with histone H2AFX and this requires phosphorylation of H2AFX on 'Ser-139'. Interacts with histone H4 that has been dimethylated at 'Lys-20'. Has low affinity for histone H4 containing monomethylated 'Lys-20'. Does not bind histone H4 containing unmethylated or trimethylated 'Lys-20'. Has low affinity for histone H3 that has been dimethylated on 'Lys-79'. Has very low affinity for histone H3 that has been monomethylated on 'Lys-79' (in vitro). Does not bind unmethylated histone H3.,

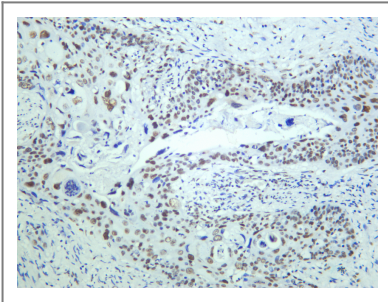
Validation Data



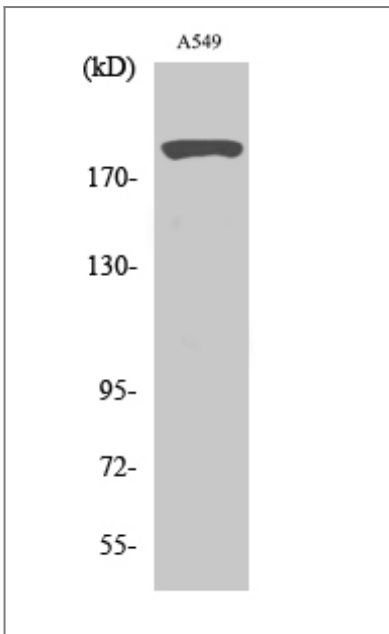
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: HeLa - Human cervical cancer Lane2: HEK293 - Human normal embryonic kidney Lane3: HepG2 - Human hepatocellular carcinoma Lane4: HCT-116 - Human colon cancer Lane5: A549 - Human lung adenocarcinoma Lane6: A431 - Human skin squamous cell carcinoma Lane7: K562 - Human chronic myeloid leukemia Lane8: Jurkat - Human acute T cell leukemia cells Lane9: MCF7 - Human breast cancer Lane10: SH-SY5Y - Human neuroblastoma cells Lane11: NIH-3T3 - NIH mouse fibroblasts Lane12: RAW264.7 - Mouse mononuclear macrophage leukemia cells Lane13: C6 - Rat glioma cells Lane14: PC-12 - Pheochromocytoma in rats Predicted band size: 450kDa Observed band size: 214kDa



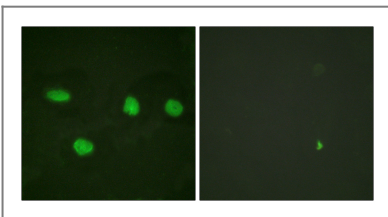
Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-53BP1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Predicted band size: 214kDa Observed band size: 450kDa



Human colon carcinoma was stained with anti-53BP1 Rabbit antibody



Western Blot analysis of various cells using 53BP1 Antibody diluted at 1:2000



Immunofluorescence analysis of HeLa cells, using 53BP1 Antibody. The picture on the right is blocked with the synthesized peptide.

Contact information

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Please scan the QR code
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PT™ Rabbit mAb

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