

53BP1 (PT0456R) PT® Rabbit mAb

CatalogNo: YM8293 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human,

Applications

- WB,IHC,IF,IP,ELISA

MW

- 214kD (Calculated)
450kD (Observed)

Isotype

- IgG,Kappa

Recommended Dilution Ratios

WB 1:2000-1:10000**IHC 1:200-1:1000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

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

Basic Information

Clonality Monoclonal**Clone Number** PT0456R

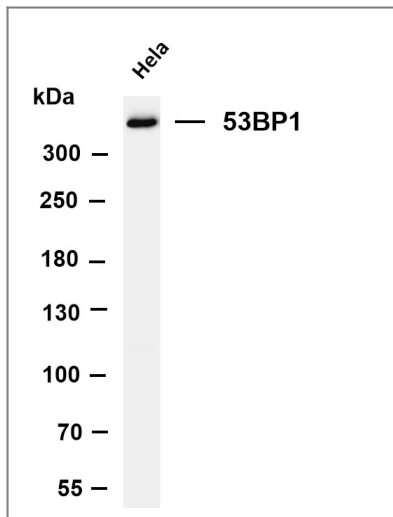
Immunogen Information

Specificity Endogenous

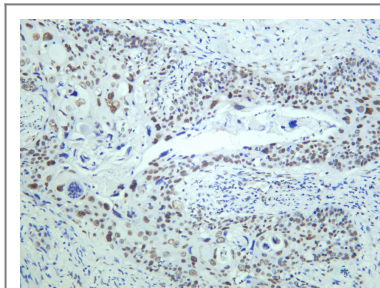
| Target Information

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 stand 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.,		

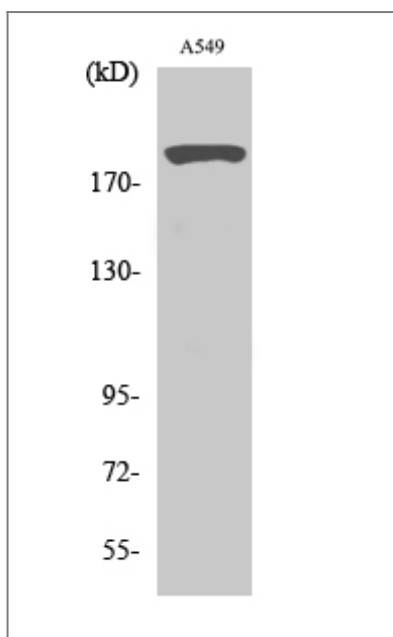
| Validation Data



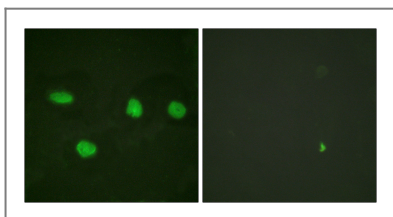
Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-53BP1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Predicted band size: 214kDa Observed band size: 450kDa



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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