

53BP1 (Phospho Thr543) Rabbit pAb

CatalogNo: YP1255

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 213kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human 53BP1 (Thr543)

Specificity This antibody detects endogenous levels of Human 53BP1 (phospho-Thr543)

Target Information

Gene name TP53BP1

Protein Name 53BP1 (Thr543)

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

Contact information

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