

TOPBP1 Rabbit pAb

CatalogNo: YT8022

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 167kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| 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.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

Synthesized peptide derived from human TOPBP1

Specificity

This antibody detects endogenous levels of TOPBP1 at Human, Mouse, Rat

| Target Information

Gene name

TOPBP1 KIAA0259

Protein Name TOPBP1

Organism	Gene ID	UniProt ID
Human	11073 ;	Q92547 ;
Mouse	235559 ;	Q6ZQF0 ;

Cellular Localization

Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Chromosome. Detected on unpaired autosomes in meiotic prophase cells. Detected on X and Y chromosomes during later stages of prophase. Colocalizes with ATR and H2AX at unsynapsed chromosome cores during prophase (By similarity). Has a uniform nuclear distribution during G phase. Colocalizes with BRCA1 at stalled replication forks during S phase. In mitotic cells it colocalizes with BRCA1 at spindle poles and centrosomes during metaphase and anaphase. Detected in discrete foci together with PML and numerous DNA repair enzymes after DNA damage by alkylating agents, UV or gamma irradiation. Localizes to sites of DNA damage in a H2AX- independent manner. .

Tissue specificity Highly expressed in heart, brain, placenta, lung and kidney.

Function

Function:Required for DNA replication. Plays a role in the rescue of stalled replication forks and checkpoint control. Binds double-stranded DNA breaks and nicks as well as single-stranded DNA. Recruits the SWI/SNF chromatin remodeling complex to E2F1-responsive promoters. Down-regulates E2F1 activity and inhibits E2F1-dependent apoptosis during G1/S transition and after DNA damage. Induces a large increase in the kinase activity of ATR.,induction:Up-regulated during the S phase of the cell cycle. Up-regulated by E2F1 and interferon.,PTM:Phosphorylated on serine and threonine residues in response to X-ray irradiation.,PTM:Ubiquitinated and degraded by the proteasome. X-ray irradiation reduces ubiquitination.,similarity:Contains 8 BRCT domains.,subcellular location:Detected on unpaired autosomes in meiotic prophase cells. Detected on X and Y chromosomes during later stages of prophase. Colocalizes with ATR and H2AFX at unsynapsed chromosome cores during prophase (By similarity). Has a uniform nuclear distribution during G phase. Colocalizes with BRCA1 at stalled replication forks during S phase. In mitotic cells it colocalizes with BRCA1 at spindle poles and centrosomes during metaphase and anaphase. Detected in discrete foci together with PML and numerous DNA repair enzymes after DNA damage by alkylating agents, UV or gamma irradiation.,subunit:Binds E2F1, PML, RAD9A, SMARCA2, SMARCA4, POLE and UBR5. May interact with TOP2B.,tissue specificity:Highly expressed in heart, brain, placenta, lung and kidney.,

Validation Data

Contact information

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