

TOPBP1 rabbit pAb

Catalog No :	YT8022
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	TOPBP1
Fields :	>>Homologous recombination
Gene Name :	TOPBP1 KIAA0259
Protein Name :	TOPBP1
Human Gene Id :	11073
Human Swiss Prot No :	Q92547
Mouse Gene Id :	235559
Mouse Swiss Prot No :	Q6ZQF0
Immunogen :	Synthesized peptide derived from human TOPBP1
Specificity :	This antibody detects endogenous levels of TOPBP1 at Human, Mouse,Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

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

Molecularweight : 167kD

Background : This gene encodes a binding protein which interacts with the C-terminal region of topoisomerase II beta. This interaction suggests a supportive role for this protein in the catalytic reactions of topoisomerase II beta through transient breakages of DNA strands. [provided by RefSeq, Jul 2008],

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. Co

Subcellular Location : 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. .

Expression : Highly expressed in heart, brain, placenta, lung and kidney.

Sort : 25093

No4 : 1

Host : Rabbit

Modifications : Unmodified

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