

Rabbit TOPBP1 Polyclonal Antibody | anti-TOPBP1 antibody

Phospho-TOPBP1 (Ser1159) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31467	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (80%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (80%), Xenopus (80%)	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

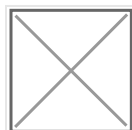
TOPBP1; Polyclonal Antibody; Phospho-TOPBP1 (Ser1159) Antibody; DNA topoisomerase 2 binding protein 1; DNA topoisomerase 2-binding protein 1; DNA topoisomerase II binding protein 1; DNA topoisomerase II binding protein; DNA topoisomerase II-beta-binding protein 1; DNA topoisomerase II-binding protein 1; DNA topoisomerase IIbeta binding protein 1; Hypothetical protein KIAA0259 [Fragment]; KIAA0259; TOP2BP1; TOPB1_HUMAN; TOPBP 1; TopBP1; Topoisomerase (DNA) II binding protein 1; Topoisomerase II binding protein 1; anti-TOPBP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (80%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (80%), Xenopus (80%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-TOPBP1 (Ser1159) Antibody detects endogenous levels of TOPBP1 only when phosphorylated at Ser1159. Tissue Specificity: Highly expressed in heart, brain, placenta, lung and kidney.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-TOPBP1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human TOPBP1 around the phosphorylation site of Ser1159.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated on serine and threonine residues in response to X-ray irradiation. Ubiquitinated and degraded by the proteasome. X-ray irradiation reduces ubiquitination.
Subunit Structure	Interacts with POLE. Interacts with RAD9A. Interacts with UBR5. Interacts with E2F1. Interacts with PML. Interacts with SMARCA2. Interacts with SMARCA4. Interacts with RHNO1. May interact with TOP2B. Interacts with TICRR. Interacts with HELB.

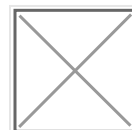
Subcellular Location	Nucleus. Cytoplasm>Cytoskeleton>Microtubule organizing center>Centrosome. Cytoplasm>Cytoskeleton>Spindle pole. Chromosome. Note: Detected on unpaired autosomes in meiotic prophase cells. Detected on X and Y chromosomes during later stages of prophase. Colocalizes with ATR and H2AX 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.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



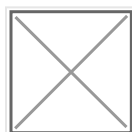
IHC (Immunohistochemistry)

At 1/100 staining Human prostate cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



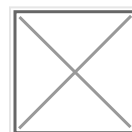
IHC (Immunohistochemistry)

At 1/100 staining Human gastric cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



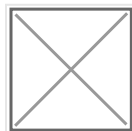
IHC (Immunohistochemistry)

At 1/100 staining Human esophageal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



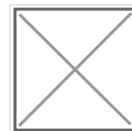
IHC (Immunohistochemistry)

At 1/100 staining Human prostate cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of TOPBP1 (Phospho-Ser1159) using PMA treated Jurkat whole cell lysates. -/+ means absence or presence of N peptide (94% non-phospho peptide) and P peptide (phospho peptide).



WB (Western Blot)

Western blot analysis of extracts from Hela, using TOPBP1 (Phospho-Ser1159) Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TOPBP1 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	194440660
NCBI GeneID	11073
NCBI Accession #	NP_008958.2
NCBI GenBank Nucleotide #	NM_007027.3
UniProt Accession #	Q92547 ; Q7LGC1 ; Q9UEB9 ; B7Z7W8
Molecular Weight	170,679 Da

NCBI Official Full Name	DNA topoisomerase 2-binding protein 1
NCBI Official Synonym Full Names	topoisomerase (DNA) II binding protein 1
NCBI Official Symbol	TOPBP1
NCBI Official Synonym Symbols	TOP2BP1
NCBI Protein Information	DNA topoisomerase 2-binding protein 1; DNA topoisomerase II-beta-binding protein 1; DNA topoisomerase II-binding protein 1
UniProt Protein Name	DNA topoisomerase 2-binding protein 1
UniProt Gene Name	TOPBP1
UniProt Synonym Gene Names	KIAA0259; TopBP1
UniProt Entry Name	TOPBP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/topbp1-antibody-western-blot-immunohistochemistry-peptide-elisa-elisa/31467>