

Phospho-TOPBP1(S1138) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3772a

Specification

Phospho-TOPBP1(S1138) Antibody - Product Information

Application	DB,E
Primary Accession	Q92547
Other Accession	Q6ZQF0 , NP_008958.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig

Phospho-TOPBP1(S1138) Antibody - Additional Information

Gene ID 11073

Other Names

DNA topoisomerase 2-binding protein 1,
DNA topoisomerase II-beta-binding protein 1,
TopBP1, DNA topoisomerase II-binding protein 1,
TOPBP1, KIAA0259

Target/Specificity

This TOPBP1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S1138 of human TOPBP1.

Dilution

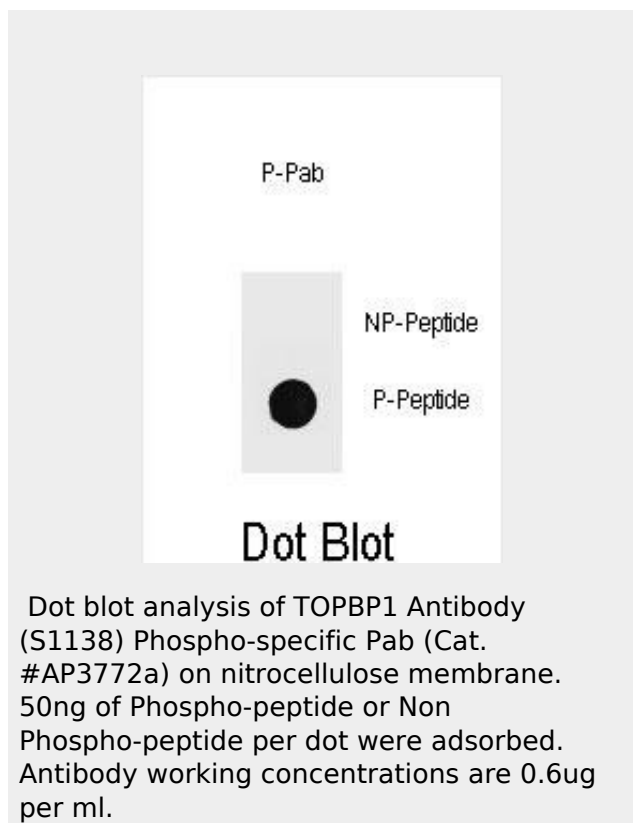
DB~~1:500

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



Phospho-TOPBP1(S1138) Antibody - 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.

Phospho-TOPBP1(S1138) Antibody - References

- Huo, Y.G., et al. Biochem. Biophys. Res. Commun. 401(3):401-405(2010)
Blackford, A.N., et al. Proc. Natl. Acad. Sci. U.S.A. 107(27):12251-12256(2010)
Takeishi, Y., et al. Genes Cells 15(7):761-771(2010)
Gong, Z., et al. Mol. Cell 37(3):438-446(2010)
Couch, F.J., et al. Cancer Epidemiol. Biomarkers

Precautions

Phospho-TOPBP1(S1138) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Prev. 19(1):251-257(2010)

Phospho-TOPBP1(S1138) Antibody - Protein Information

Name TOPBP1

Synonyms KIAA0259

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 (PubMed:16530042).

Cellular 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.

Tissue Location

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

**Phospho-TOPBP1(S1138) Antibody -
Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)