

Rabbit TOP3B Polyclonal Antibody | anti-TOP3B antibody

Anti-TOP3B Antibody Picoband

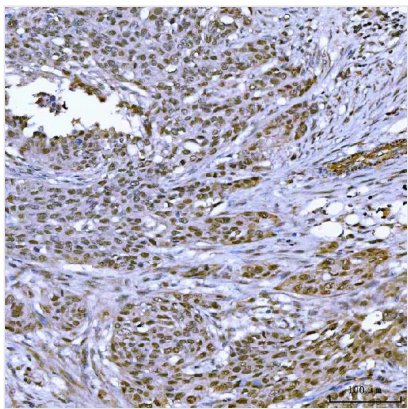
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126576	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

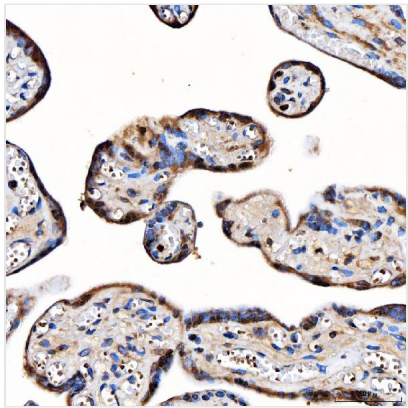
TOP3B; Polyclonal Antibody; Anti-TOP3B Antibody Picoband; anti-TOP3B antibody

PRODUCT SPECIFICATIONS

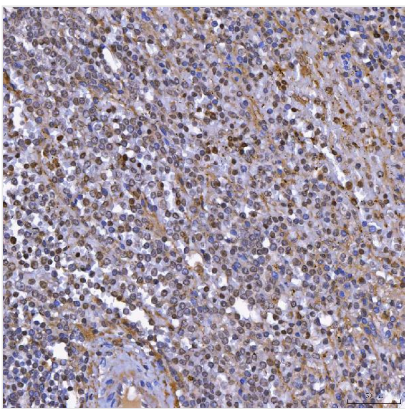
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-TOP3B antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human TOP3B recombinant protein (Position: E128-R824).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



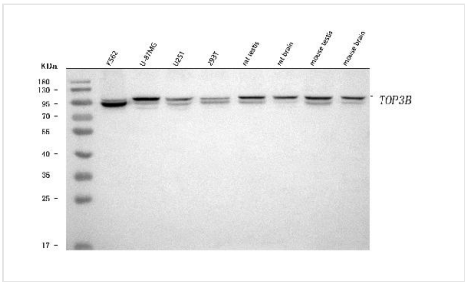
IHC (Immunohistochemistry)
Figure 4. IHC analysis of TOP3B using anti-TOP3B antibody (AAA126576).TOP3B was detected in a paraffin-embedded section of human ovarian serous adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was then incubated with 2 ug/ml rabbit anti-TOP3B Antibody (AAA126576) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of TOP3B using anti-TOP3B antibody (AAA126576).TOP3B was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TOP3B Antibody (AAA126576) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of TOP3B using anti-TOP3B antibody (AAA126576).TOP3B was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TOP3B Antibody (AAA126576) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of TOP3B using anti-TOP3B antibody (AAA126576).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human K562 whole cell lysates,Lane 2: human U-87MG whole cell lysates,Lane 3: human U251 whole cell lysates,Lane 4: human 293T whole cell lysates,Lane 5: rat testis tissue lysates,Lane 6: rat brain tissue lysates,Lane 7: mouse testis tissue lysates,Lane 8: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TOP3B antigen affinity purified polyclonal antibody (#AAA126576) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TOP3B at approximately 90-97 kDa. The expected band size for TOP3B is at 97 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TOP3B antibody	DNA topoisomerase 3-beta-1 is an enzyme that in humans is encoded by the TOP3B gene. This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This enzyme catalyzes the transient breaking and rejoining of a single strand of DNA which allows the strands to pass through one another, thus relaxing the supercoils and altering the topology of DNA. The enzyme interacts with DNA helicase SGS1 and plays a role in DNA recombination, cellular aging and maintenance of genome stability. Low expression of this gene may be related to higher survival rates in breast cancer patients. This gene has a pseudogene on chromosome 22. Alternate splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.
Product Categories/Family for anti-TOP3B antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507635
NCBI GeneID	8940
NCBI Accession #	NP_003926.1
NCBI GenBank Nucleotide #	NM_003935.3
UniProt Accession #	O95985; Q9BUP5; A0M8Q3
Molecular Weight	96,662 Da
NCBI Official Full Name	DNA topoisomerase 3-beta-1
NCBI Official Synonym Full Names	topoisomerase (DNA) III beta
NCBI Official Symbol	TOP3B
NCBI Protein Information	DNA topoisomerase 3-beta-1; topoisomerase III beta; DNA topoisomerase III beta-1
UniProt Protein Name	DNA topoisomerase 3-beta-1
UniProt Gene Name	TOP3B
UniProt Synonym Gene Names	TOP3B1
UniProt Entry Name	TOP3B_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://www.aaabiotech.com/polyclonal/top3b-antibody-immunohistochemistry-western-blot-elisa/126576>