

Mouse anti-Human Topo II alpha Monoclonal Antibody | anti-TOP2A antibody

Topo II alpha

CATALOG # AAA78248	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

Topo II alpha; Monoclonal Antibody; anti-TOP2A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, Kappa
Clone Number	ABM48B4
Purity/Purification	Protein G purification
Form/Format	Purified
Concentration	0.5 mg/ml (varies by lot)
Sequence Length	1531
Applicable Applications for anti-TOP2A antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A partial length recombinant human Topo II alpha protein (amino acids 1326-1512) was used as the immunogen for this antibody.
Content	25 ug in 50 ul/100 ug in 200 ?l PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Target Modification	No
Produced from Ascites	No
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeated freeze and thaw cycles.

IMAGES



WB (Western Blot)

Expression analysis of Topo II alpha. Anti-Topo II alpha antibody (Clone: ABM48B4) was tested at 1 ug/ml on (1) HT-29, (2) 293, (3) A549 and (4) Raji Lysates.



FCM/FACS (Flow Cytometry)

Intracellular Flow analysis of Topo II alpha antibody in Jurkat cells using 0.5 ug/10⁶ cells of anti-Topo II alpha antibody (ABM48B4). Green represents isotype control; red represents anti-Topo II alpha antibody. Goat anti-mouse PE conjugate was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TOP2A antibody	Topoisomerases are essential nuclear enzymes that are involved in DNA supercoiling regulation and play key roles in transcription, replication, and chromosome segregation. Two major classes of topoisomerases (types I and II) are distinguished by the number of DNA strands that they cleave and the mechanism by which they alter the topological properties of DNA. Topo II Alpha is cell cycle-regulated and is essential for the survival of proliferating cells. It accumulates on chromatin during M-phase, a dynamic localization that is dependent on its C-terminal domain. Although Topo II alpha is the major form of Topo II responsible for decatenation, mitotic chromosome formation and chromosome segregation in proliferating cells, the contribution of the two isoforms has not yet been fully established. Topo II Alpha plays an important role in DNA synthesis and transcription and has been implicated in a variety of human cancers. It also plays a role in various cancer subtypes and acts as targets for cancer therapy, as well as biomarkers for prediction of response.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	19913406
NCBI GeneID	7153
NCBI Accession #	NP_001058.2
NCBI GenBank Nucleotide #	NM_001067.3
UniProt Accession #	P11388; Q71UN1; Q71UQ5; Q9HB24; Q9HB25; Q9HB26; Q9UP44; Q9UQP9; B2RTS1
NCBI Official Full Name	DNA topoisomerase 2-alpha
NCBI Official Synonym Full Names	topoisomerase (DNA) II alpha
NCBI Official Symbol	TOP2A
NCBI Official Synonym Symbols	TOP2; TP2A
NCBI Protein Information	DNA topoisomerase 2-alpha
UniProt Protein Name	DNA topoisomerase 2-alpha
UniProt Gene Name	TOP2A
UniProt Synonym Gene Names	TOP2
UniProt Entry Name	TOP2A_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/monoclonal/topo-ii-alpha-antibody-clone-abm48b4-flow-cytometry-western-blot-elisa/78248>