

Recombinant Human DNA topoisomerase II beta Protein, His tagged

Cat. No. TOP2B-001H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DNA topoisomerase II beta protein (1187-1621 aa) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1187-1621 aa
Description	This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, beta, is localized to chromosome 3 and the alpha form is localized to chromosome 17. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia. Alternative splicing results in multiple transcript variants.
Molecular Mass	49 kDa

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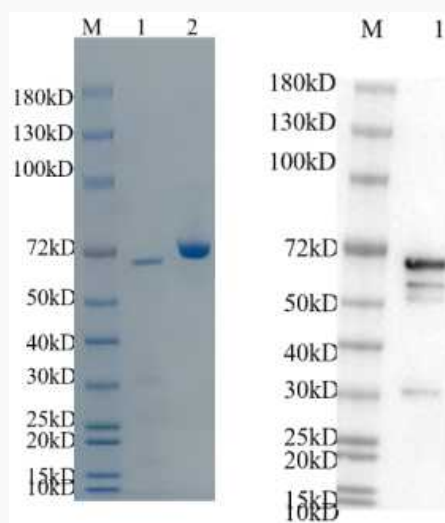
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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AA Sequence	MEDLAAFVEELDKVESQEREDVLAGMSGKAIKGKVGKPKVKKLQLEETMPSPYGRRIPEITAMKADASKLLKKKKGDLDTAAVKVEFDEEFSGAPVEGAGEEALTPSVPINKGPKPKREKKEPGTRVRKTPTSSGKPSAKKVKKRNPWSDESSESLEETEPVVIPRDSLLRRAAAERPKYTFDFSEEEEDDDADDDDDNNDLEELKVKASPITNDGEDEFVPSDGLDKDEYTFSPGKSKATPEKSLHDKKSQDFGNLFSFPSYSQKSEDDSAKFDSNEEDSASVFSPSFGKQTDKVPSKTVAACKGKPPSDTVPKPKRAPKQKKVVEAVNSDSDSEFGIPKKTTPKGGKGRGAKKRKASGSENEGDPNPRKTSKTTSSKKPKKTSFDQDSDVDIFPSDFPTEPPSLPRTGRARKEVKYFAESDEEEDDVDHHHHHHHHH
Endotoxin	< 1 EU/μg by LAL.
Purity	> 90 % by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4, 10 % Glycerol, 8 % Trehalose
Concentration	0.92 mg/mL by BCA
GENE INFORMATION	
Gene Name	TOP2B DNA topoisomerase II beta [Homo sapiens (human)]
Official Symbol	TOP2B
Synonyms	TOP2B; topoisomerase (DNA) II beta 180kDa; topoisomerase (DNA) II beta (180kD); DNA topoisomerase 2-beta; topo II beta; antigen MLAA-44; topoisomerase IIb; topoisomerase II beta; U937 associated antigen; DNA topoisomerase II beta; DNA topoisomerase II, 180 kD; DNA topoisomerase II, beta isozyme; TOPIIB; top2beta

Gene ID	7155
mRNA Refseq	NM_001068
Protein Refseq	NP_001059
MIM	126431
UniProt ID	Q02880

Reducing 4 %-20 %
SDS-PAGE (CBB
stained) and WB
(Anti-His Mouse
Monoclonal
antibody) analysis
profiles of purified
TOP2B.



1. TOP2B: 1 µg
2. BSA: 1 µg