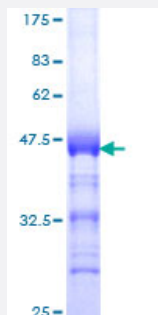


# TOP2B (Human) Recombinant Protein (Q01)

Catalog # H00007155-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human TOP2B partial ORF ( NP_001059, 1411 a.a. - 1523 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	LDKDEYTFSPGKSKATPEKSLHDKKSQDFGNLFSFPSYSQKSEDDSAKFDSNEEDSASVFSPS FGLKQTDKVPSTVAAKKGKPSSDTPKPKRAPKQKKVVEAVNSDSDSEF
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	38.17
<b>Interspecies Antigen Sequence</b>	Mouse (88); Rat (84)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — TOP2B

Entrez GeneID [7155](#)

GeneBank Accession# [NM\\_001068](#)

Protein Accession# [NP\\_001059](#)

Gene Name TOP2B

Gene Alias TOP1IB, top2beta

Gene Description topoisomerase (DNA) II beta 180kDa

Omim ID [126431](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic state 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 of this gene results in two transcript variants; however, the second variant has not yet been fully described. [provided by RefSeq]

**Other Designations**

DNA topoisomerase II beta|DNA topoisomerase II, 180 kD|DNA topoisomerase II, beta isozyme|U937 associated antigen|antigen MLAA-44|topo II beta|topoisomerase (DNA) II beta (180kD)|topoisomerase II beta|topoisomerase IIb

## Disease

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- [Diabetes Mellitus](#)
- [Edema](#)