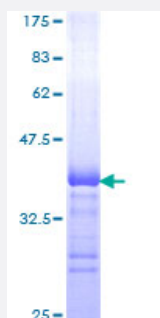


TOP2A (Human) Recombinant Protein (Q01)

Catalog # H00007153-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human TOP2A partial ORF (NP_001058, 1435 a.a. - 1531 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	RAAPKGTKRDPALNSGVSQKPDPAKTKNRRKRKPSTSDSDSNFEKIVSKAVTSKKS KGESDD FHMDFDSAVAPRAKSVRAKKPIKYLEESDEDDL F
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.41
Interspecies Antigen Sequence	Mouse (68); Rat (71)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	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 — TOP2A

Entrez GeneID [7153](#)

GeneBank Accession# [NM_001067](#)

Protein Accession# [NP_001058](#)

Gene Name TOP2A

Gene Alias TOP2, TP2A

Gene Description topoisomerase (DNA) II alpha 170kDa

Omim ID [126430](#)

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, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. 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. [provided by RefSeq]

Other Designations DNA topoisomerase II, 170 kD|DNA topoisomerase II, alpha isozyme|topoisomerase (DNA) II alpha (170kD)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Recurrence](#)
- [Stomach Neoplasms](#)