

Recombinant Human TOP3B cell lysate

Cat. No. TOP3B-1810HCL Lot. No. (See product label)

SPECIFICATION

| | |
|-----------------------|---|
| Species | Human |
| Description | <p>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. Alternative splicing of the C-terminus of this gene results in three transcript variants which have distinct tissue specificity; however, not all variants have been fully described.</p> |
| Size | 100 ul |
| Storage Buffer | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue) |
| Applications | Western Blot; |

GENE INFORMATION

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|------------------------|--|
| Gene Name | TOP3B topoisomerase (DNA) III beta [Homo sapiens] |
| Official Symbol | TOP3B |
| Synonyms | TOP3B; topoisomerase (DNA) III beta; DNA topoisomerase 3-beta-1; topoisomerase |

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|----------------------------|---|
| | III beta; DNA topoisomerase III beta-1; FLJ39376; |
| Gene ID | 8940 |
| mRNA Refseq | NM_003935 |
| Protein Refseq | NP_003926 |
| MIM | 603582 |
| UniProt ID | O95985 |
| Chromosome Location | 22q11.22 |
| Pathway | Blooms syndrome complex, organism-specific biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem; Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem; |
| Function | ATP binding; DNA binding; DNA topoisomerase activity; DNA topoisomerase type I activity; nucleotide binding; |

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