

Recombinant Human TOP3B cell lysate

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

SPECIFICATION

Product Overview

Species

Human

Description

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.

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

Gene Name

TOP3B topoisomerase (DNA) III beta [Homo sapiens]

Official Symbol

TOP3B

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Synonyms	TOP3B; topoisomerase (DNA) III beta; DNA topoisomerase 3-beta-1; topoisomerase 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;