

TOP2B(Texas Red)/CEN3q(FITC) FISH Probe

Catalog # FA0502 Size 200 uL

Specification	
Product Description	Made to order FISH probes for identification of gene amplification using Fluorescent In Situ Hybridiz ation Technique. (Technology).
Origin	Human
Source	Genomic DNA
Reactivity	Human
Notice	We strongly recommend the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: KA2375 or KA2691) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections.
Regulation Status	For research use only (RUO)
Supplied Product	DAPI Counterstain (1500 ng/mL) 250 uL
Storage Instruction	Store at 4°C in the dark.

Applications

• Fluorescent In Situ Hybridization (Cell)

Protocol Download

Gene Info — TOP2B	
Entrez GenelD	<u>7155</u>
Gene Name	TOP2B
Gene Alias	TOPIIB, top2beta
Gene Description	topoisomerase (DNA) Il beta 180kDa



Product Information

<u>126431</u>
<u>Hyperlink</u>
This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic state s 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 tran scription 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 a ctivity 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
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

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema