

Human DNA Topoisomerase 3-alpha (TOP3A) ELISA Kit | TOP3A elisa kit

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CATALOG #
AAA330379

REACTIVITY
Human

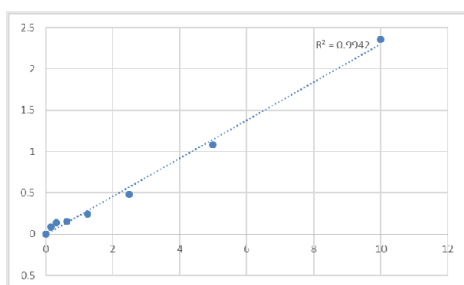
PRODUCT SYNONYMS

DNA Topoisomerase 3-alpha (TOP3A); Human DNA Topoisomerase 3-alpha (TOP3A) ELISA Kit; TOP3A; TOP3; topol-alpha; TOP3A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human DNA topoisomerase 3-alpha (TOP3A) ELISA Kit has high sensitivity and excellent specificity for detection of Human TOP3A. No significant cross-reactivity or interference between Human TOP3A and analogues was observed.
Sequence Length	1001
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human DNA topoisomerase 3-alpha (TOP3A) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TOP3A elisa kit	Description: This Human DNA topoisomerase 3-alpha (TOP3A) ELISA Kit employs a two-site sandwich ELISA to quantitate TOP3A in samples. An antibody specific for TOP3A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TOP3A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TOP3A is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TOP3A bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: DNA topoisomerase 3-alpha is ana 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 reducing the number of supercoils and altering the topology of DNA. This enzyme forms a complex with BLM which functions in the regulation of recombination in somatic cells.High expression is found in testis, heart, skeletal muscle and pancreas. Reduces the number of supercoils in a highly negatively supercoiled DNA. Essential component of the RMI complex, a complex that plays an important role in the processing of homologous recombination intermediates to limit DNA crossover formation in cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10835218
NCBI GeneID	7156
NCBI Accession #	NP_004609.1
NCBI GenBank Nucleotide #	NP_004609.1
UniProt Accession #	Q13472
NCBI Official Full Name	DNA topoisomerase 3-alpha isoform 1
NCBI Official Synonym Full Names	DNA topoisomerase III alpha
NCBI Official Symbol	TOP3A
NCBI Official Synonym Symbols	TOP3; PEOB5; ZGRF7; MGRISCE2
NCBI Protein Information	DNA topoisomerase 3-alpha
UniProt Protein Name	DNA topoisomerase 3-alpha
UniProt Gene Name	TOP3A
UniProt Synonym Gene Names	TOP3
UniProt Entry Name	TOP3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.