Human DNA Topoisomerase 1 (TOP1) ELISA Kit | TOP1 elisa kit

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CATALOG #	REACTIVITY
AAA330380	**Human**

PRODUCT SYNONYMS

DNA Topoisomerase 1 (TOP1); Human DNA Topoisomerase 1 (TOP1) ELISA Kit; TOP1; RP3-511B24.2; TOPI; DNA topoisomerase I; type I DNA topoisomerase; TOP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human DNA topoisomerase 1 (TOP1) ELISA Kit has high sensitivity and excellent specificity for detection of Human TOP1. No significant cross-reactivity or interference between Human TOP1 and analogues was observed.
Sequence Length	765
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 1 (TOP1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TOP1 elisa kit	Description: This Human DNA topoisomerase 1 (TOP1) ELISA Kit employs a two-site sandwich ELISA to quantitate TOP1 in samples. An antibody specific for TOP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TOP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TOP1 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 TOP1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TOP1MT is a mitochondrial DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This enzyme catalyzes the transient breaking and rejoining of DNA which allows the strands to pass through one another and relieves the stress introduced by a circular mitochondrial genome during replication and transcription. TOP1MT, encoding a 601-amino acid polypeptide that is highly homologous to nuclear topoisomerase I (TOP1). The N-terminal domain of TOP1MT contains a mitochondrial localization sequence and lacks a nuclear localization signal. The pattern of TOP1MT expression matches the requirement for high mitochondrial activity in specific tissues. TOP1MT is a type IB topoisomerase and requires divalent metal, Ca(2+) or Mg(2+), and alkaline pH for optimal activity.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11225260
NCBI GeneID	7150
NCBI Accession #	NP_003277.1
NCBI GenBank Nucleotide #	NP_003277.1
UniProt Accession #	P11387
NCBI Official Full Name	DNA topoisomerase 1
NCBI Official Synonym Full Names	DNA topoisomerase I
NCBI Official Symbol	TOP1
NCBI Official Synonym Symbols	TOPI
NCBI Protein Information	DNA topoisomerase 1
UniProt Protein Name	DNA topoisomerase 1
UniProt Gene Name	**TOP1**
UniProt Entry Name	TOP1_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.

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Online datasheet: https://stage.aaabiotech.com/human-elisa-kits/dna-topoisomerase-1-top1/330380