

Rat DNA topoisomerase 1 (TOP1) ELISA Kit

Catalog No: #EK11353



Package Size: #EK11353-1 48T #EK11353-2 96T

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Description

Product Name	Rat DNA topoisomerase 1 (TOP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	RP3-511B24.2; TOPI; DNA topoisomerase I type I DNA topoisomerase
Accession No.	Q9WUL0
Uniprot	Q9WUL0
GeneID	64550;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.059 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay 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 anyTOP1 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.**Product Overview:**DNA topoisomerase 1 isa 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 altering the topology of DNA. This gene is localized to chromosome 20 and has pseudogenes which reside on chromosomes 1 and 22.Type IA topoisomerases creates a single break in DNA, and passes a second strand or duplex through the break. This strand passage mechanism shares several features with type IIA topoisomerases. They both form a 5' phosphotyrosine intermediate, and require a divalent metal ion to perform its work. Unlike type II topoisomerases, type IA topoisomerases do not use energy to do its work

Note: This product is for in vitro research use only