

Datasheet for ABIN2792181

anti-Topoisomerase II alpha antibody (C-Term)



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2 Images

Overview

Quantity:	100 µL
Target:	Topoisomerase II alpha (TOP2A)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Pig, Dog, Horse, Rabbit, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Topoisomerase II alpha antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human TOP2A
Sequence:	VSKAVTSKKS KGESDDFHMD FDSAVAPRAK SVRAKKPIKY LEESDEDDL F
Predicted Reactivity:	Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 87%, Pig: 100%, Rabbit: 100%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against TOP2A. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	Topoisomerase II alpha (TOP2A)
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Target Details

Alternative Name:	TOP2A (TOP2A Products)
Background:	TOP2A is a DNA topoisomerase, an enzyme that controls and alters the topologic states 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 transcription 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, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. 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 activity of this enzyme may also play a role in ataxia-telangiectasia. Alias Symbols: TOP2, TP2A Protein Interaction Partner: UBC, SUMO2, SUMO3, EIF6, RPA3, RPA2, RPA1, SUMO1, LMNA, CTNNB1, ITGA4, FN1, CSNK2A1, VCAM1, SRPK1, RB1, ESR1, TOP2B, CSNK2A2, UPF3B, PRKCG, PRKCB, PRKCA, TERF2, BLM, NEDD8, COPS5, CUL5, FBXW7, ISG15, CUL2, VHL, TCEB1, GSK3B, SUMO4, SMARCAD1, CTCF, RING1, Protein Size: 1531
Molecular Weight:	174 kDa
Gene ID:	7153
NCBI Accession:	NM_001067 , NP_001058
UniProt:	P11388
Pathways:	Cell Division Cycle , Mitotic G1-G1/S Phases

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1531 AA
Restrictions:	For Research Use only

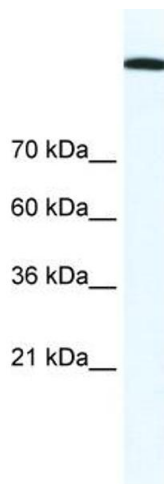
Handling

Format:	Liquid
Concentration:	Lot specific

Handling

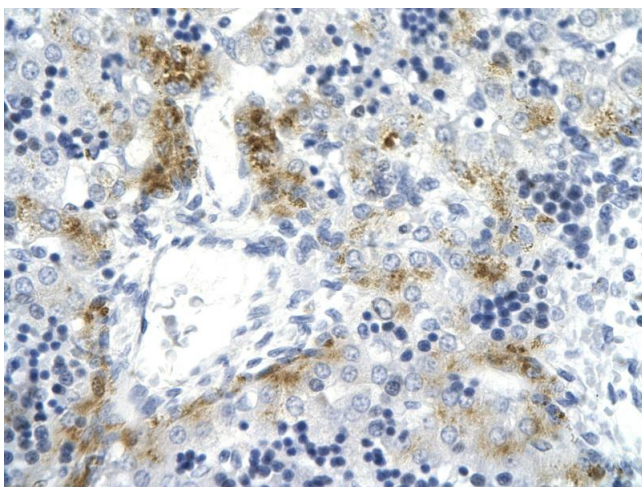
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-TOP2A Antibody Titration: 1.25ug/ml ELISA Titer: 1:62500 Positive Control: HepG2 cell lysate TOP2A is supported by BioGPS gene expression data to be expressed in HepG2



Immunohistochemistry

Image 2. Rabbit Anti-TOP2A antibody AV Paraffin Embedded Tissue: Human Liver cell Cellular Data: hepatocyte of renal tubule Antibody Concentration: 4.0-8.0 ug/ml Magnification: 400X