Datasheet for ABIN7127010

Recombinant anti-Topoisomerase II alpha antibody (AA 1352-1493)

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Overview

Quantity:	100 µg
Target:	Topoisomerase II alpha (TOP2A)
Binding Specificity:	AA 1352-1493
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Topoisomerase II alpha antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant human Topoisomerase II alpha fragment (aa1352-1493)
Isotype:	IgG1
Specificity:	It recognizes a 170 kDa protein, which is identified as topoisomerase IIi±. It shows no cross-reaction with Topoisomerase II i² or I. Topo II i± plays important roles in synthesis and transcription of DNA as well as chromosomal segregation during mitosis. It is reported to be a sensitive and specific marker of late S-, G2- & M-phases in transformed and developmentally regulated normal cells. Topo II i± is also implicated in drug resistance of tumor cells and has been shown to be over-expressed in many human cancers. Decreased expression of Topo IIa is the predominant mechanism of resistance to several chemotherapeutic agents.
Cross-Reactivity (Details):	Human and Mouse.

Product Details

Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	Topoisomerase II alpha (TOP2A)
Alternative Name:	TOP2A (TOP2A Products)
Background:	ATP hydrolyzing DNA topoisomerase II alfa, DNA gyrase, DNA topoisomerase (ATP hydrolyzing), DNA topoisomerase 2 alpha, DNA topoisomerase II 170kD, DNA topoisomerase II alpha, DNA Topoisomerase2, TOP2A, Topoisomerase DNA II alpha 170 kDa, TP2A,Topoisomerase II alpha (Proliferation & Drug-Resistance Marker) Cellular localisation: Nuclear
Molecular Weight:	170kDa
Gene ID:	7153, 156346
UniProt:	P11388
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases

Application Details

Application Notes:	Known_Application: Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined. Positive_Control: Human lymph node or tonsil.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.

Handling

Expiry Date:	24 months