

Datasheet for ABIN7660930

anti-Topoisomerase II alpha antibody (AA 1352-1493) (CF®740)



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Overview

Quantity:	100 µL
Target:	Topoisomerase II alpha (TOP2A)
Binding Specificity:	AA 1352-1493
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Topoisomerase II alpha antibody is conjugated to CF®740
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Purpose:	Topoisomerase II alpha (Proliferation & Drug-Resistance Marker) (TOP2A/1362), CF740 conjugate
Immunogen:	Recombinant human Topoisomerase II alpha fragment (aa1352-1493)
Clone:	TOP2A-1362
Isotype:	IgG2b, kappa
Characteristics:	This antibody recognizes a 170 kDa protein, which is identified as topoisomerase IIα. It shows no cross-reaction with topoisomerase IIβ or topoisomerase I. Topo IIα 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 IIα is also implicated in drug resistance of tumor

Product Details

cells. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	Topoisomerase II alpha (TOP2A)
Alternative Name:	Topoisomerase-II-Alpha
Background:	Synonyms: 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 Gene Symbol: TOP2A
Molecular Weight:	170 kDa
Gene ID:	7153
UniProt:	P11388
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases

Application Details

Application Notes:	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Immunofluorescence: 1-2 µg/mL. Immunohistology (formalin): 0.5-1 µg/mL. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. Flow Cytometry 0.5-1 µg/million cells/0.1 mL. Western blotting 0.5-1 µg/mL. Optimal dilution for a specific application should be determined by user
Comment:	Positive Control: HeLa Cells or Tonsil
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 mg/mL

Handling

Buffer:	PBS, 0.1 % rBSA, 0.05 % azide
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:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months