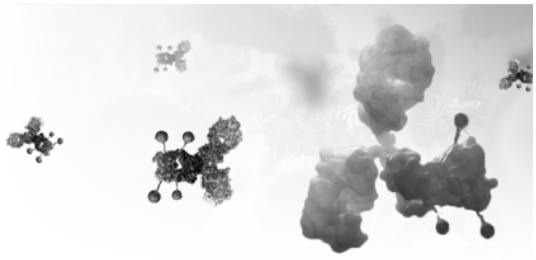

Mouse anti-Human DNA Topoisomerase I monoclonal antibody, clone D-32 (CABT-B9195)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Isotype	IgM
Source/Host	Mouse
Species Reactivity	Human
Clone	D-32
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	0.5 mg/ml
Size	100 µg
Buffer	Aqueous buffered solution containing ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	DNA damage may be caused by various environmental factors, including radiation, mutagenic

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	chemicals and copy errors which occur during DNA replication. The correction of DNA damage, so called "proofreading" functions of the cell, is achieved by numerous excision-repair enzymes. Topoisomerases alter the helical structure of DNA by introducing the transient breaking and rejoining of DNA strands, allowing other excision-repair enzymes to correct DNA errors. Topoisomerase I (Topo I) is a ubiquitous, soluble enzyme whose expression is fairly constant throughout the cell cycle. The related enzyme, Topo II, is a primarily insoluble structural protein whose expression varies between cell types and during the cell cycle. In addition to its role in DNA mismatch repair, Topo I displays kinase activity, phosphorylating serine-arginine rich (SR) splicing factors, and perhaps regulating gene expression by changing the splicing pattern of structural genes. DNA Topo I migrates at a molecular weight of 100 kDa in SDS-PAGE. Clone D-32 recognizes human DNA Topoisomerase I. The antibody is routinely tested by western blot analysis of A-431 cell lysates.
Keywords	TOP1; topoisomerase (DNA) I; TOPI; DNA topoisomerase 1; type I DNA topoisomerase;

GENE INFORMATION

Entrez Gene ID	7150
UniProt ID	P11387

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