Datasheet for ABIN7466271

anti-TDG antibody

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Overview

Quantity:	100 µL
Target:	TDG
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TDG antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human TDG. The exact sequence is proprietary.
Clone:	GT1142
Isotype:	IgG2b
Cross-Reactivity:	Human
Purification:	Affinity purified by Protein A.

Target Details

Target:	TDG
Alternative Name:	thymine DNA glycosylase (TDG Products)
Background:	Thymine DNA glycosylase , hTDG,The protein encoded by this gene belongs to the TDG/mug

Target Details

	DNA glycosylase family. Thymine-DNA glycosylase (TDG) removes thymine moieties from G/T mismatches by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of DNA and the mispaired thymine. With lower activity, this enzyme also removes thymine from C/T and T/T mispairings. TDG can also remove uracil and 5-bromouracil from mispairings with guanine. This enzyme plays a central role in cellular defense against genetic mutation caused by the spontaneous deamination of 5-methylcytosine and cytosine. This gene may have a pseudogene in the p arm of chromosome 12. [provided by RefSeq]
Molecular Weight:	46 kDa
Gene ID:	6996
UniProt:	Q13569
Pathways:	DNA Damage Repair, Chromatin Binding

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: human TDG -transfected 293T cells
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, No Preservative
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.