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Datasheet for ABIN7464910
anti-TDG antibody (N-Term)

Overview

Quantity:	100 µL
Target:	TDG
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TDG antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the N-terminus region of human TDG. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

Target Details

Target:	TDG
Alternative Name:	thymine DNA glycosylase (TDG Products)

Target Details

Background:	Thymine DNA glycosylase , hTDG, The protein encoded by this gene belongs to the TDG/mug 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: 1:5000-1:20000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: rat brain , HeLa , TDG-transfected 293T Validation: KO/KD, Overexpression
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS (pH 7), 20 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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.