

Mouse TDG Monoclonal Antibody | anti-TDG antibody

TDG antibody

CATALOG # AAA224991	HOST Mouse	APPLICATIONS Immunofluorescence, Immunocytochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

TDG; Monoclonal Antibody; TDG antibody; Mouse monoclonal TDG antibody; Monoclonal TDG antibody; Thymine-DNA glycosylase antibody; G/T mismatch-specific thymine DNA glycosylase antibody; anti-TDG antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Clone Number	AT2F7
Purity/Purification	Purified by protein-A affinity chromatography
Form/Format	Liquid form in Phosphate-Buffered Saline (pH 7.4) containing 10% Glycerol and 0.02% Sodium Azide
Concentration	1 mg/ml (varies by lot)
Sequence Length	382
Applicable Applications for anti-TDG antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant human TDG (1-410aa) purified from E.coli
Preparation and Storage	Short term: -4°C Long term: -20°C to -80°C Avoid repeat freeze-thaws.

IMAGES



Application Data

The cell lysates of HeLa (30 ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with TDG antibody (1:250).

ADDITIONAL INFORMATION

Related Product Information for anti-TDG antibody

G/T mismatch-specific thymine DNA glycosylase is an enzyme that in humans is encoded by the TDG gene. Several bacterial proteins have strong sequence homology with this protein. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116283610
NCBI GeneID	6996
NCBI Official Full Name	TDG protein, partial
NCBI Official Synonym Full Names	thymine DNA glycosylase
NCBI Official Symbol	TDG
NCBI Official Synonym Symbols	hTDG
NCBI Protein Information	G/T mismatch-specific thymine DNA glycosylase
UniProt Protein Name	G/T mismatch-specific thymine DNA glycosylase
UniProt Gene Name	TDG
UniProt Synonym Gene Names	hTDG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.