

Datasheet for ABIN1526109 **anti-TDG antibody**

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Overview

Quantity:	0.1 mL
Target:	TDG
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TDG antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Clone:	AT2F7
Isotype:	IgG1
Purification:	Protein-A affinity chromatography

Target Details

Target:	TDG
Alternative Name:	TDG (TDG Products)
Background:	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

Target Details

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.Synonyms: G/T mismatch-specific thymine DNA glycosylase

Pathways: [DNA Damage Repair](#), [Chromatin Binding](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

Buffer: Phosphate-Buffered Saline (pH 7.4) containing 10 % Glycerol, 0.02 % Sodium 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.