

Datasheet for ABIN390560
anti-TDG antibody (C-Term)[Go to Product page](#)

2 Images

Overview

| | |
|----------------------|--|
| Quantity: | 400 µL |
| Target: | TDG |
| Binding Specificity: | AA 281-310, C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TDG antibody is un-conjugated |
| Application: | Western Blotting (WB), Flow Cytometry (FACS) |

Product Details

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|---------------|--|
| Immunogen: | This TDG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 281-310 amino acids from the C-terminal region of human TDG. |
| Clone: | RB19894 |
| Isotype: | Ig Fraction |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |

Target Details

| | |
|-------------------|--------------------------------------|
| Target: | TDG |
| Alternative Name: | TDG (TDG Products) |

Target Details

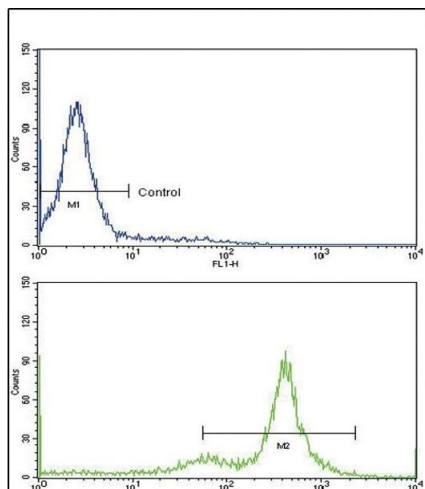
| | |
|-------------------|--|
| Background: | The protein TDG belongs to the TDG/mug DNA glycosylase family. Thymine-DNA glycosylase (TDG) removes thymine moieties from G/T mismatches by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of DNA and the mispaired thymine. With 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. |
| Molecular Weight: | 46053 |
| Gene ID: | 6996 |
| NCBI Accession: | NP_003202 |
| UniProt: | Q13569 |
| Pathways: | DNA Damage Repair , Chromatin Binding |

Application Details

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|--------------------|-------------------------|
| Application Notes: | WB: 1:1000. FC: 1:10~50 |
| Restrictions: | For Research Use only |

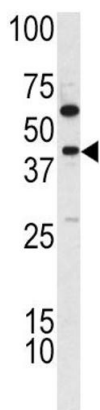
Handling

| | |
|--------------------|--|
| Format: | Liquid |
| Buffer: | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date: | 6 months |



Flow Cytometry

Image 1. Flow cytometric analysis of K562 cells using TDG Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. Western blot analysis of TDG antibody (C-term) (ABIN390560 and ABIN2840891) in K562 cell line lysates (35 µg/lane). TDG (arrow) was detected using the purified Pab.