

## Datasheet for ABIN7466593 **anti-TDG antibody**



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### Overview

|              |                                                                           |
|--------------|---------------------------------------------------------------------------|
| Quantity:    | 100 µL                                                                    |
| Target:      | TDG                                                                       |
| Reactivity:  | Human                                                                     |
| Host:        | Rabbit                                                                    |
| Clonality:   | Polyclonal                                                                |
| 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. |
| Isotype:          | IgG                                                                                                                   |
| Cross-Reactivity: | Human, Mouse                                                                                                          |
| Purification:     | Purified by antigen-affinity chromatography.                                                                          |
| Grade:            | KO Validated                                                                                                          |

### Target Details

|                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| Target:           | TDG                                                                                     |
| Alternative Name: | thymine DNA glycosylase ( <a href="#">TDG Products</a> )                                |
| 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: 1:5000-1:20000. ICC/IF: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

Comment: 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.