

Datasheet for ABIN7256254

anti-TDG antibody[Go to Product page](#)**1** Image

Overview

| | |
|--------------|------------------------------------|
| Quantity: | 200 µL |
| Target: | TDG |
| Reactivity: | Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TDG antibody is un-conjugated |
| Application: | Western Blotting (WB) |

Product Details

| | |
|------------------|--|
| Immunogen: | Recombinant fusion protein of human TDG (NP_003202.3). |
| Isotype: | IgG |
| Characteristics: | Polyclonal Antibody |
| Purification: | Affinity purification |

Target Details

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

Target Details

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.

Molecular Weight: Observed_MW: 60 kDa
Calculated_MW: 46 kDa

Gene ID: 6996

UniProt: [Q13569](#)

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

Application Details

Application Notes: WB 1:500-1:2000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

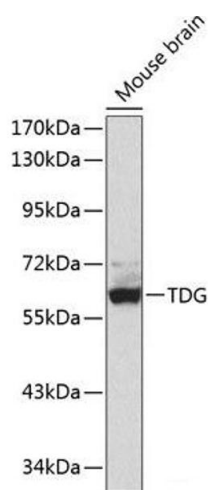
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3

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: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of Mouse brain using TDG Polyclonal Antibody.