

## TDG Polyclonal Antibody

**Catalog No.** E-AB-64285

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

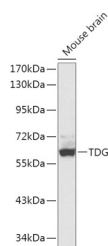
### Description

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| <b>Reactivity</b>   | Mouse,Rat                                              |
| <b>Immunogen</b>    | Recombinant fusion protein of human TDG (NP_003202.3). |
| <b>Host</b>         | Rabbit                                                 |
| <b>Isotype</b>      | IgG                                                    |
| <b>Purification</b> | Affinity purification                                  |
| <b>Conjugation</b>  | Unconjugated                                           |
| <b>Buffer</b>       | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.      |

### Applications Recommended Dilution

|           |              |
|-----------|--------------|
| <b>WB</b> | 1:500-1:2000 |
|-----------|--------------|

### Data



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

**Observed Mw:60kDa**  
**Calculated Mw:46kDa**

### Preparation & Storage

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

### 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. 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.

### For Research Use Only