

## TDG Polyclonal Antibody

Catalog number: 13370-1-AP

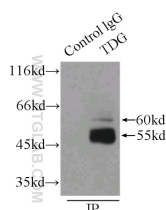
Size: 24 µg/150 µl

Source: Rabbit

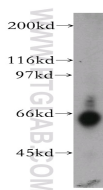
Isotype: IgG

Synonyms:

TDG; TDG, thymine DNA glycosylase



IP Result of anti-TDG (IP:13370-1-AP, 3µg; Detection:13370-1-AP 1:400) with U-937 cells lysate 3000µg.



human brain tissue were subjected to SDS PAGE followed by western blot with 13370-1-AP(TDG antibody) at dilution of 1:400

### Background

TDG belongs to the TDG/mug DNA glycosylase family. TDG corrects G/T mispairs to G/C pairs. It is capable of hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and a mispaired thymine. In addition to the G/T, it can remove thymine also from C/T and T/T mispairs in the order G/T >> C/T > T/T. It has no detectable activity on apyrimidinic sites and does not catalyze the removal of thymine from A/T pairs or from single-stranded DNA. It can also remove uracil and 5-bromouracil from mispairs with guanine. RNF4 interacts with and requires the base excision repair enzymes TDG and APE1 for active demethylation (PMID:20696907). TDG is modified by SUMO-1 and SUMO-2/3. The molecular weight of non-modified TDG is 60 kDa and modified TDG is 86 kDa.

### Applications

Tested applications:	ELISA, WB, IP
Cited applications:	ChIP, IHC, IP, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated TDG MW:	410aa, 46 kDa
Observed TDG MW:	60, 86 kDa
Positive WB detected in	Human brain tissue, HeLa cells, mouse colon tissue, mouse thymus tissue, Raji cells
Positive IP detected in	U-937 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:1000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag4190
GenBank accession number:	BC037557
Gene ID (NCBI):	6996
Full name:	Thymine-DNA glycosylase

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.