

For Research Use Only

TDG Polyclonal antibody, PBS Only

Catalog Number: 13370-1-PBS

Featured Product



Basic Information

Catalog Number:

13370-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4190

GenBank Accession Number:

BC037557

GeneID (NCBI):

6996

UNIPROT ID:

Q13569

Full Name:

thymine-DNA glycosylase

Calculated MW:

410 aa, 46 kDa

Observed MW:

55-60 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IF/ICC, IP, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

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 46 kDa and modified TDG is 55-60 kDa.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

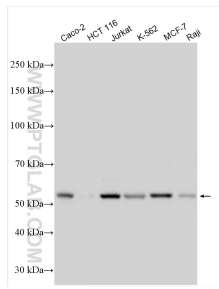
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

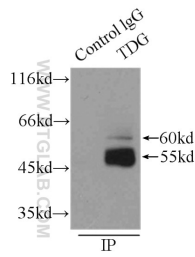
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

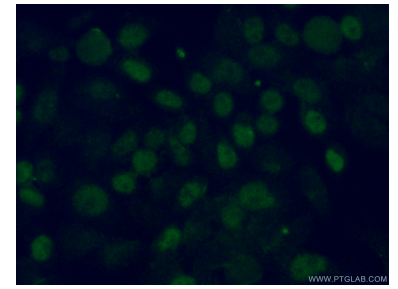
Selected Validation Data



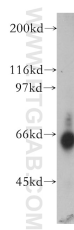
Various lysates were subjected to SDS PAGE followed by western blot with 13370-1-AP (TDG antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13370-1-PBS in a different storage buffer formulation.



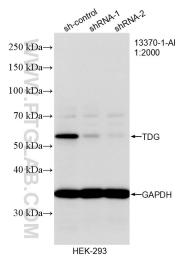
IP result of anti-TDG (IP:13370-1-AP, 3ug; Detection:13370-1-AP 1:400) with U-937 cells lysate 3000ug. This data was developed using the same antibody clone with 13370-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 13370-1-AP (TDG antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 13370-1-PBS in a different storage buffer formulation.



human brain tissue were subjected to SDS PAGE followed by western blot with 13370-1-AP (TDG antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13370-1-PBS in a different storage buffer formulation.



WB result of TDG antibody (13370-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TDG transfected HEK-293 cells. This data was developed using the same antibody clone with 13370-1-PBS in a different storage buffer formulation.