For Research Use Only

TDG Polyclonal antibody

Catalog Number:13370-1-AP

Featured Product

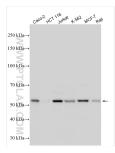




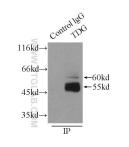
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 13370-1-AP BC037557 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 400 ug/ml by 6996 WB 1:2000-1:10000 Nanodrop: IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: protein lysate Source Q13569 IF/ICC 1:50-1:500 Rabbit Full Name: Isotype thymine-DNA glycosylase lgG Calculated MW: Immunogen Catalog Number: 410 aa, 46 kDa AG4190 **Observed MW:** 55-60 kDa **Tested Applications:** Positive Controls: **Applications** WB, IF/ICC, IP, ELISA WB: Caco-2 cells, mouse colon tissue, HeLa cells, **Cited Applications:** human brain tissue. Raii cells. mouse thymus tissue. WB, IHC, IP, ChIP HCT-116 cells, Jurkat cells, K-562 cells, MCF-7 cells **Species Specificity:** IP: U-937 cells, human, mouse, rat IF/ICC : HeLa cells. **Cited Species:** human, mouse TDG belongs to the TDG/mug DNA glycosylase family. TDG corrects G/T mispairs to G/C pairs. It is capable of **Background Information** 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. Notable Publications Author Pubmed ID Journal Application Jiyu Miao Int J Biol Sci WB 35414793 J Cell Biol WB,IP Umut Sahin 24637324 Etsuko Shibata WB 24962565 1 Biol Chem Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage *** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

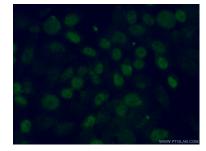
Selected Validation Data



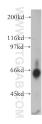
Various lysates were subjected to SDS PAGE followed by western blot with 13370-1-AP (TDG antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 13370-1-AP (TDG antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



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.