For Research Use Only

TDP1 Polyclonal antibody, PBS Only

Catalog Number:10641-1-PBS Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
10641-1-PBS

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0964

GenBank Accession Number:
BC006083

GeneID (NCBI):
55775

UNIPROT ID:
Q9NUW8

Full Name:
tyrosyl-DNA phosphodiesterase 1

Calculated MW:
34 kDa, 68 kDa

Observed MW:
68 kDa

Purification Method:
Antigen affinity purification

Applications

Tested Applications:
WB, IHC, IP, Indirect ELISA

Species Specificity:
human

Background Information

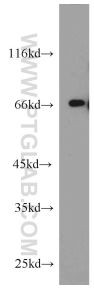
Tyrosyl DNA phosphodiesterase 1 (TDP1) is an enzyme capable of hydrolyzing phosphodiester bonds between tyrosine and the 3-phosphate of DNA, which are typically generated in a transient manner by DNA topoisomerase I (topo I) and it appears to be more mobile and diffusible than topo I, and it has a different distribution in the nucleus (PMID:15494395). TDP1 is involed in protecting cells against oxidative DNA damage, and with the impaired ability of TDP1-deficient cells to remove 3-phosphoglycolate (PMID:21041670). Defects in TDP1 are the cause of spinocerebellar ataxia autosomal recessive with axonal neuropathy (SCAN1)(PMID:17948061).

Storage

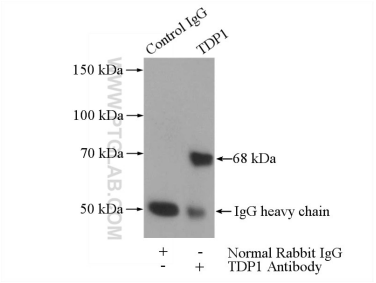
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

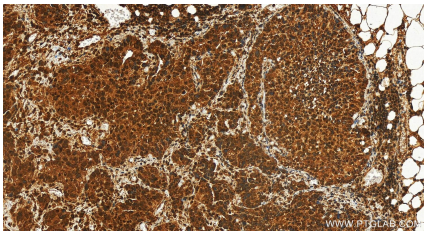
Selected Validation Data



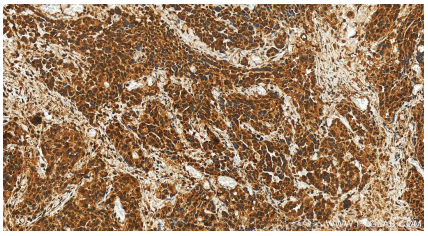
MCF7 cells were subjected to SDS PAGE followed by western blot with 10641-1-AP (TDP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10641-1-PBS in a different storage buffer formulation.



IP result of anti-TDP1 (IP:10641-1-AP, 4ug; Detection:10641-1-AP 1:1000) with HeLa cells lysate 1200ug. This data was developed using the same antibody clone with 10641-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 10641-1-AP (TDP1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10641-1-PBS in a different storage buffer formulation.



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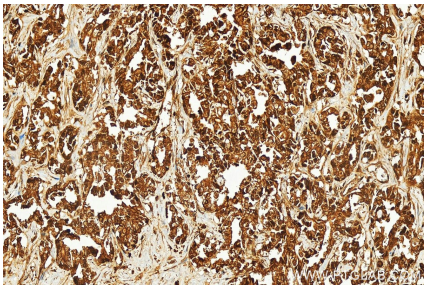
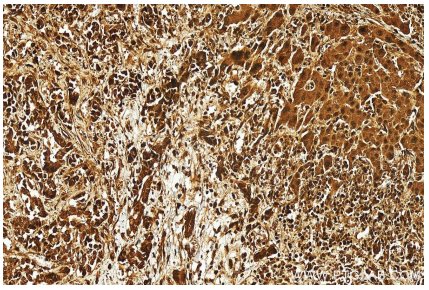


Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 10641-1-AP (TDP1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10641-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 10641-1-AP (TDP1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10641-1-PBS in a different storage buffer formulation.