For Research Use Only

TDP1 Polyclonal antibody

Catalog Number: 10641-1-AP

Featured Product

3 Publications



Basic Information

 Catalog Number:
 GenBank Accession Number:

 10641-1-AP
 BC006083

 Size:
 GeneID (NCBI):

 800 ug/ml
 55775

 Source:
 UNIPROT ID:

 Rabbit
 Q9NUW8

Rabbit Q9NUW8
Isotype: Full Name:

IgG tyrosyl-DNA phosphodiesterase 1

Immunogen Catalog Number:Calculated MW:AG096434 kDa, 68 kDaObserved MW:

68 kDa

Applications

Tested Applications: WB, IHC, IP, ELISA Cited Applications:

WB, IF

Species Specificity:

human
Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: MCF7 cells, HeLa cells

IP: HeLa cells,

IHC: human ovary cancer tissue, human intrahepatic

Purification Method:

WB 1:500-1:2000

protein lysate

IHC 1:50-1:500

Antigen affinity purification

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

cholangiocarcinoma tissue

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Inken Flörkemeier	36142413	Int J Mol Sci	WB
Jing Li	29078113	DNA Repair (Amst)	WB
Perego Paola P	21978643	Biochem Pharmacol	IF

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

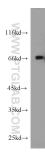
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

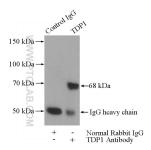
W: ptgcn.cor

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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.



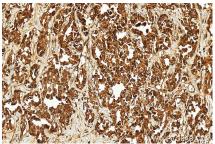
IP result of anti-TDP1 (IP:10641-1-AP, 4ug; Detection:10641-1-AP 1:1000) with HeLa cells lysate 1200ug.



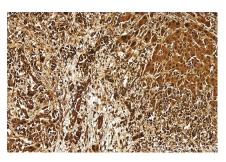
Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 10641-1-AP (TDP1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunohistochemical analysis of paraffinembedded 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).



Immunohistochemical analysis of paraffinembedded 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).