

For Research Use Only

# TDP1 Polyclonal antibody

Catalog Number: 10641-1-AP

Featured Product

3 Publications



## Basic Information

<b>Catalog Number:</b> 10641-1-AP	<b>GenBank Accession Number:</b> BC006083	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 800 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 55775	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> tyrosyl-DNA phosphodiesterase 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 34 kDa, 68 kDa	
<b>Immunogen Catalog Number:</b> AG0964	<b>Observed MW:</b> 68 kDa	

## Applications

<b>Tested Applications:</b> IP, WB, ELISA	<b>Positive Controls:</b> WB : MCF7 cells, HeLa cells
<b>Cited Applications:</b> IF, WB	<b>IP :</b> HeLa cells,
<b>Species Specificity:</b> human	
<b>Cited Species:</b> 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 involved 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

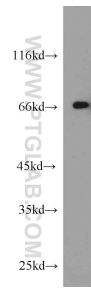
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

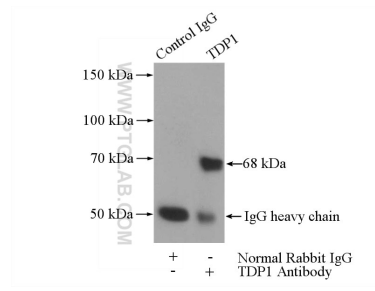
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



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.