

TDP1 Polyclonal Antibody

Catalog number: 10641-1-AP

Size: 20 µg/150 µl

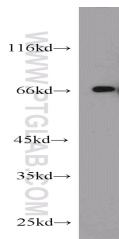
Source: Rabbit

Isotype: IgG

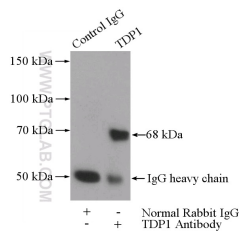
Synonyms:

TDP1; FLJ11090, TDP1, Tyr

DNA phosphodiesterase 1



MCF7 cells were subjected to SDS PAGE followed by western blot with 10641-1-AP(TDP1 antibody) at dilution of 1:1000



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

Background

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).

Applications

Tested applications:	ELISA, WB, IP
Cited applications:	IF
Species specificity:	Human,Mouse,Rat; other species not tested.
Cited species:	Human
Calculated TDP1 MW:	34 kDa,68 kDa
Observed TDP1 MW:	68 kDa
Positive WB detected in	MCF7 cells, HeLa cells
Positive IP detected in	HeLa cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0964
GenBank accession number:	BC006083
Gene ID (NCBI):	55775
Full name:	Tyrosyl-DNA phosphodiesterase 1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.