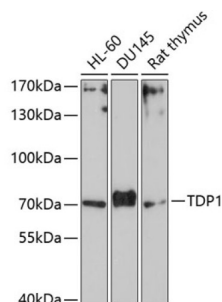
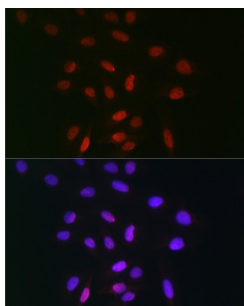


## Tyrosyl-DNA Phosphodiesterase 1 (TDP1) Antibody

Catalogue No.: abx003676



Western blot analysis of various lysates using TDP1 Antibody at 1/1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 90s.



Immunofluorescence analysis of U-2 OS cells using TDP1 Antibody at dilution of 1/100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1/500 dilution. Blue: DAPI for nuclear staining.

TDP1 Antibody is a Rabbit Polyclonal antibody against TDP1. The protein encoded by this gene is involved in repairing stalled topoisomerase I-DNA complexes by catalyzing the hydrolysis of the phosphodiester bond between the tyrosine residue of topoisomerase I and the 3-prime phosphate of DNA. This protein may also remove glycolate from single-stranded DNA containing 3-prime phosphoglycolate, suggesting a role in repair of free-radical mediated DNA double-strand breaks. This gene is a member of the phospholipase D family and contains two PLD phosphodiesterase domains. Mutations in this gene are associated with the disease spinocerebellar ataxia with axonal neuropathy (SCAN1). While several transcript variants may exist for this gene, the full-length nature of only two have been described to date. These two represent the major variants of this gene and encode the same isoform.

**Target:** Tyrosyl-DNA Phosphodiesterase 1 (TDP1)

**Clonality:** Polyclonal

**Reactivity:** Human, Rat

**Tested Applications:** ELISA, WB, IF/ICC

**Host:** Rabbit

**Recommended dilutions:** ELISA: 1 µg/ml, WB: 1/500 - 1/2000, IF/ICC: 1/50 - 1/200. Optimal dilutions/concentrations should be determined by the end user.

**Conjugation:** Unconjugated

**Immunogen:** Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human TDP1.

# Datasheet

Version: 4.0.0  
Revision date: 12 Mar 2025



|                     |  |
|---------------------|--|
| Isotype:            | IgG  |
| Form:               | Liquid   |
| Purification:       | Purified by affinity chromatography.   |
| Storage:            | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.   |
| UniProt Primary AC: | Q9NUW8 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )  |
| Gene Symbol:        | TDP1   |
| GeneID:             | <a href="#">55775</a>  |
| NCBI Accession:     | NP_060789.2  |
| String:             | <a href="#">9606.ENSP00000337353</a>   |
| Molecular Weight:   | Calculated MW: 68 kDa<br>Observed MW: 70 kDa   |
| Buffer:             | PBS, pH 7.3, containing 0.02% sodium azide, 50% glycerol.  |
| Concentration:      | > 0.2 mg/ml  |
| Note:               | THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION. |