

Datasheet for ABIN2857076

anti-TDP1 antibody**3** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	TDP1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TDP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human TDP1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit Polyclonal antibody to TDP1 (tyrosyl-DNA phosphodiesterase 1) TDP1 antibody [N1N3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	TDP1
Alternative Name:	tyrosyl-DNA phosphodiesterase 1 (TDP1 Products)

Target Details

Background:	<p>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 natures of only two have been described to date. These two represent the major variants of this gene and encode the same isoform.</p> <p>Cellular Localization: Nucleus , Cytoplasm</p>
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Molecular Weight:	68 kDa
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Gene ID:	55775
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UniProt:	Q9NUW8
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Application Details

Application Notes:	WB: 1:1000-1:10000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
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Comment:	Positive Control: 293T , A431 , HeLa , HepG2
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Concentration:	1 mg/mL
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Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
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Preservative:	Thimerosal (Merthiolate)
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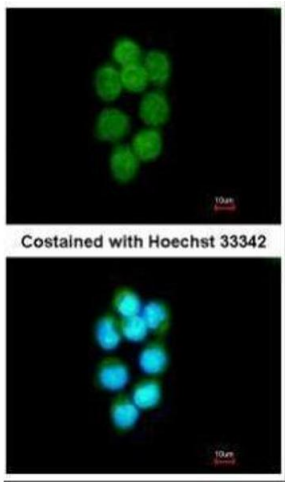
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C, -20 °C
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Handling

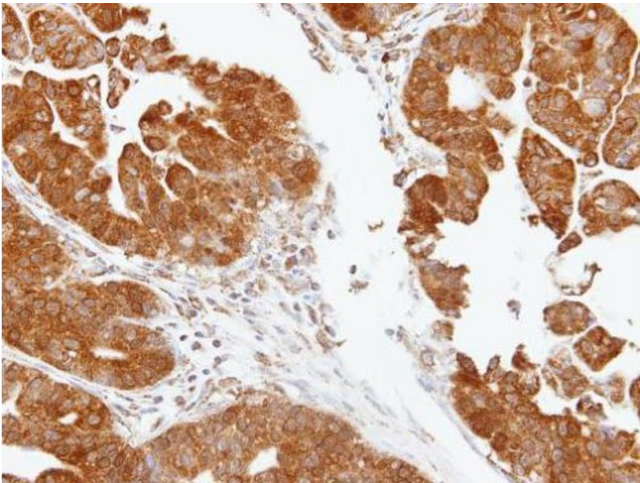
Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



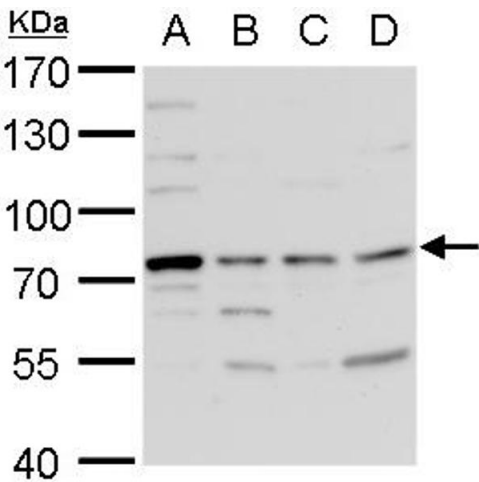
Immunofluorescence

Image 1. ICC/IF Image Immunofluorescence analysis of methanol-fixed A431, using TDP1, antibody at 1:200 dilution.



Immunohistochemistry

Image 2. IHC-P Image Immunohistochemical analysis of paraffin-embedded human gastric, using TDP1, antibody at 1:100 dilution.



Western Blotting

Image 3. WB Image TDP1 antibody [N1N3] detects TDP1 protein by western blot analysis. A. 30 µg 293T whole cell lysate/extract B. 30 µg A431 whole cell lysate/extract C. 30 µg HeLa whole cell lysate/extract D. 30 µg HepG2 whole cell lysate/extract 7.5 % SDS-PAGE TDP1 antibody [N1N3] , dilution: 1:5000