

## Product datasheet

# Recombinant Human TDP1 protein ab131921

[1 Image](#)

### Description

<b>Product name</b>	Recombinant Human TDP1 protein
<b>Expression system</b>	Wheat germ
<b>Accession</b>	<b><u>Q9NUW8</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p>MSQEGDYGRWTISSSDESEEEKPKDPKPSTSSLLCARQ            GAANEPRYTCSE            AQKAAHKRKISPVKFSNTDSVLPPKRQKSGSQEDLGWCL            SSSDDELQPEM            PQQKAEKVVIKKEKDISAPNDGTAQRTEHGAPACHRLK            EEDEYETSGE            GQDIWDMLDKGNPFQFYLTRVSGVKPKYNSGALHIKDILS            PLFGTLVSSA            QFNFCFDVDWLVKQYPPEFRKKPILLVHGDKREKAHLH            AQAKPYENISL            CQAKLDIAFGTHHTKMMLLLYEEGLRVVIHTSNLIHADWHQ            KTQGWLSP            LYPRIADGTHKSGESPTHFKADLISYLMAYNAPSLKEWIDVI            HKHDLSET            NVYLIGSTPGRFQGSQKDNWGHFRLKLLKDHASSMPNA            ESWPVVGQFSS            VGSLGADESKWLCSEFKESMLTLGKESKTPGKSSVPLYLI            YPSVENVRTS            LEGYPAGGSLPYSIQTAEKQNLHLSYFHKWSAETSGRSN            AMPHIKTYMRP            SPDFSKIAWFLVTSANLSKAAWGALEKNGTQLMIRSYELG            VLFLPSAFGL            DSFKVKQKFFAGSQEPMATFPVPYDLPPELYGSKDRPWI            WNIPYVKAPDT HGNMWWPS</p>
<b>Predicted molecular weight</b>	93 kDa including tags
<b>Amino acids</b>	1 to 608
<b>Tags</b>	GST tag N-Terminus

## Specifications

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Our **Abpromise guarantee** covers the use of **ab131921** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA SDS-PAGE Western blot
<b>Form</b>	Liquid

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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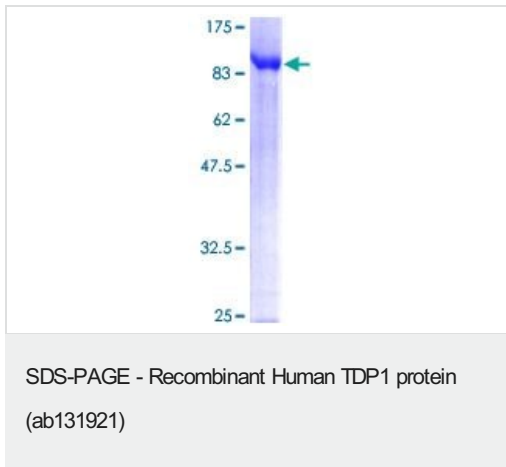
## General Info

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<b>Function</b>	DNA repair enzyme that can remove a variety of covalent adducts from DNA through hydrolysis of a 3'-phosphodiester bond, giving rise to DNA with a free 3' phosphate. Catalyzes the hydrolysis of dead-end complexes between DNA and the topoisomerase I active site tyrosine residue. Hydrolyzes 3'-phosphoglycolates on protruding 3' ends on DNA double-strand breaks due to DNA damage by radiation and free radicals. Acts on blunt-ended double-strand DNA breaks and on single-stranded DNA. Has low 3'exonuclease activity and can remove a single nucleoside from the 3'end of DNA and RNA molecules with 3'hydroxyl groups. Has no exonuclease activity towards DNA or RNA with a 3'phosphate.
<b>Tissue specificity</b>	Ubiquitously expressed. Similar expression throughout the central nervous system (whole brain, amygdala, caudate nucleus, cerebellum, cerebral cortex, frontal lobe, hippocampus, medulla oblongata, occipital lobe, putamen, substantia nigra, temporal lobe, thalamus, nucleus accumbens and spinal cord) and increased expression in testis and thymus.
<b>Involvement in disease</b>	Spinocerebellar ataxia, autosomal recessive, with axonal neuropathy
<b>Sequence similarities</b>	Belongs to the tyrosyl-DNA phosphodiesterase family.
<b>Post-translational modifications</b>	Phosphorylated on serine and/or threonine residues, but not on tyrosine residues.
<b>Cellular localization</b>	Nucleus. Cytoplasm.

## Images

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12.5% SDS-PAGE analysis of ab131921 stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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