

TDP1 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2799a**Specification**

TDP1 Antibody (internal region) - Product Information

Application	WB
Primary Accession	O9NUW8
Other Accession	NP_060789.2 , 55775
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	68420

TDP1 Antibody (internal region) - Additional Information**Gene ID** 55775**Other Names**

Tyrosyl-DNA phosphodiesterase 1, Tyr-DNA phosphodiesterase 1, 3.1.4.-, TDP1

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TDP1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

TDP1 Antibody (internal region) - Protein Information**Name** TDP1**Function**

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.

Cellular Location

Nucleus. Cytoplasm

Tissue Location

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.

TDP1 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TDP1 Antibody (internal region) - Images

AF2799a (2 µg/ml) staining of Jurkat nuclear lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

TDP1 Antibody (internal region) - Background

Reported variants represent identical protein: NP_001008744.1, NP_060789.2

TDP1 Antibody (internal region) - References

Novel high-throughput electrochemiluminescent assay for identification of human tyrosyl-DNA phosphodiesterase (Tdp1) inhibitors and characterization of furamidine (NSC 305831) as an inhibitor of Tdp1 Antony S, Marchand C, Stephen AG, Thibaut L, Agama KK, Fisher RJ, Pommier Y Nucleic Acids Res. 2007;35(13):4474-84. Epub 2007 Jun 18 PMID: 17576665