

Product datasheet for **TA344882**

TDP1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-Tdp1 antibody: synthetic peptide corresponding to a region of Mouse. Synthetic peptide located within the following region: ETNVYLIGSTPGRFQGSHRDNWDGHFRLRKLQAHAPSTPKGECWPIVGQF
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	64 kDa
Gene Name:	tyrosyl-DNA phosphodiesterase 1
Database Link:	NP_060789 Entrez Gene 104884 Mouse Q9NUW8



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Background:

Tdp1 is a 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. It catalyzes the hydrolysis of dead-end complexes between DNA and the topoisomerase I active site tyrosine residue. It hydrolyzes 3'-phosphoglycolates on protruding 3' ends on DNA double-strand breaks due to DNA damage by radiation and free radicals. It acts on blunt-ended double-strand DNA breaks and on single-stranded DNA. It has low 3'exonuclease activity and can remove a single nucleoside from the 3'end of DNA and RNA molecules with 3'hydroxyl groups. It has no exonuclease activity towards DNA or RNA with a 3'phosphate.

Synonyms:

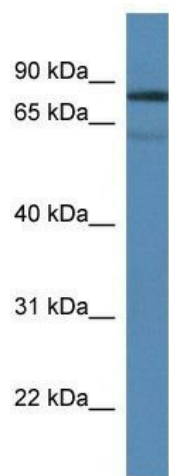
FLJ11090; MGC104252

Note:

Immunogen Sequence Homology: Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Guinea pig: 100%; Dog: 93%; Rabbit: 93%; Bovine: 92%; Mouse: 86%

Protein Families:

Druggable Genome

Product images:

WB Suggested Anti-Tdp1 Antibody; Titration: 1.0 ug/ml; Positive Control: Mouse Brain