

Product Datasheet

TDP2 Antibody / Tyrosyl-DNA phosphodiesterase 2 / ETS1 associated protein II (orb750056)

Catalog Number	orb750056
Category	Antibodies
Description	<p>This mAb recognizes a protein of 41kDa, which is identified as TDP2, or ETS1 associated protein II. It is a member of a superfamily of divalent cation-dependent phosphodiesterases. The encoded protein associates with CD40, tumor necrosis factor (TNF) receptor-75 and TNF receptor associated factors (TRAFs), and inhibits nuclear factor-kappa-B activation. This protein has sequence and structural similarities with APE1 endonuclease, which is involved in both DNA repair and the activation of transcription factors. DNA repair enzyme that can remove a variety of covalent adducts from DNA through hydrolysis of a 5'-phosphodiester bond, giving rise to DNA with a free 5' phosphate. Catalyzes the hydrolysis of dead-end complexes between DNA and the topoisomerase 2 (TOP2) active site tyrosine residue. Hydrolyzes 5'-phosphoglycolates on protruding 5' ends on DNA double-strand breaks (DSBs) due to DNA damage by radiation and free radicals. The 5'-tyrosyl DNA phosphodiesterase activity can enable the repair of TOP2-induced DSBs without the need for nuclease activity, creating a 'clean' DSB with 5'-phosphate termini that are ready for ligation. Has also 3'-tyrosyl DNA phosphodiesterase activity, but less efficiently and much slower than TDP1. May also act as a negative regulator of ETS1 and may inhibit nuclear factor-kappa-B activation.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human

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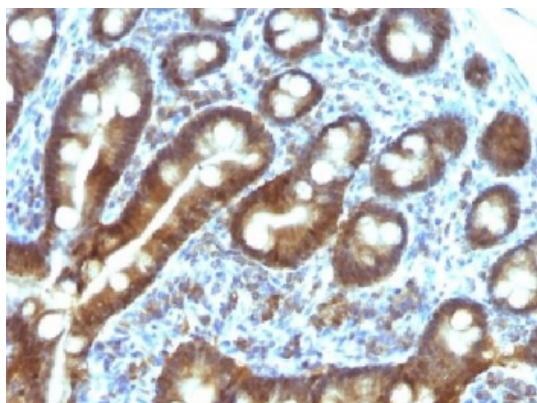
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Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein G affinity chromatography
Immunogen	Human recombinant full length protein was used as the immunogen for this TDP2 antibody.
UniProt ID	O95551
Tested applications	FACS, IF, IHC-P
Dilution range	FACS: 0.5-1ug/10 ⁶ cells in 0.1ml, Immunofluorescence: 0.5-1ug/ml, Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Application notes	The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the TDP2 antibody to be titered up or down for optimal performance.
Antibody Type	Primary Antibody
Clone Number	TDP2/1258
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human duodenal carcinoma with TDP2 antibody (clone TDP2/1258). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH9, for 10-20 min followed by cooling at RT for 20 min.

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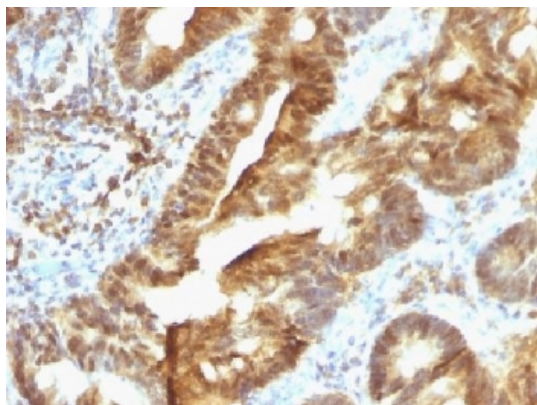
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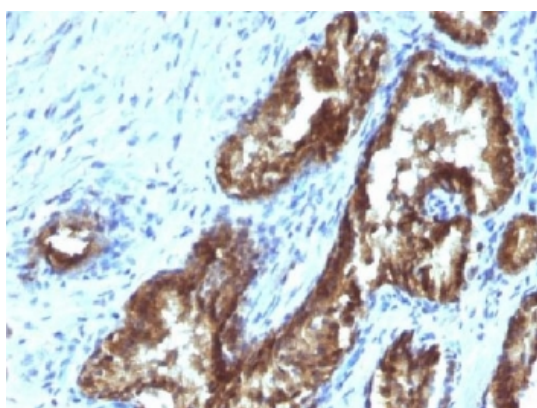
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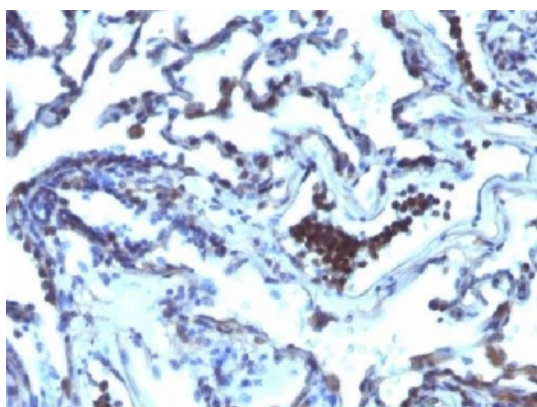
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IHC testing of FFPE human colon carcinoma with TDP2 antibody (clone TDP2/1258). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH9, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human prostate carcinoma with TDP2 antibody (clone TDP2/1258). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH9, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human lung carcinoma with TDP2 antibody (clone TDP2/1258). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH9, for 10-20 min followed by cooling at RT for 20 min.

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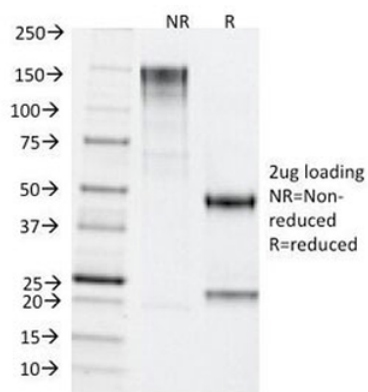
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SDS-PAGE Analysis of Purified, BSA-Free TDP2 Antibody (clone TDP2/1258). Confirmation of Integrity and Purity of the Antibody.

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