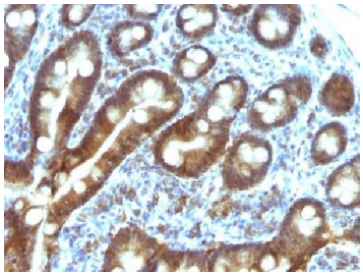
TDP2 Antibody / Tyrosyl-DNA phosphodiesterase 2 / ETS1 associated protein II [clone TDP2/1258] (V3394)

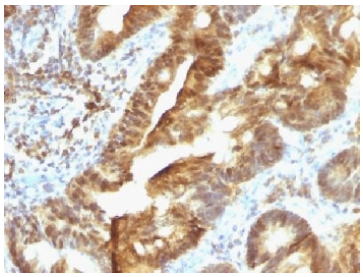
Catalog No.	Formulation	Size
V3394-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3394-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3394SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

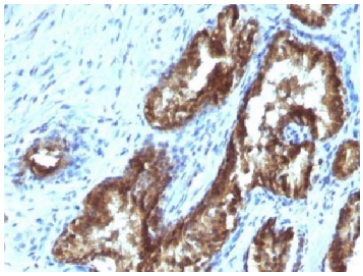
Species Reactivity	Human. Others not tested.
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	TDP2/1258
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	O95551
Localization	Nuclear, cytoplasmic
Applications	Flow Cytometry : 0.5-1ug/10^6 cells in 0.1ml Immunofluorescence : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This TDP2 antibody is available for research use only.



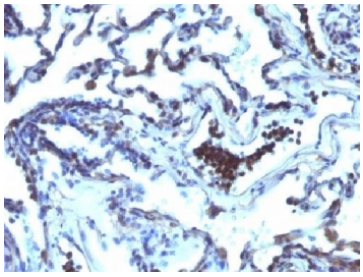
IHC testing of FFPE human duodenal carcinoma with TDP2 antibody (clone TDP2/1258). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



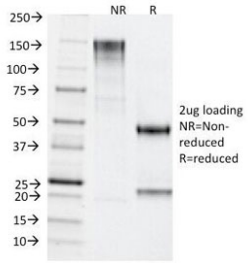
IHC testing of FFPE human colon carcinoma with TDP2 antibody (clone TDP2/1258). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human prostate carcinoma with TDP2 antibody (clone TDP2/1258). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, 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, pH 9, for 10-20 min followed by cooling at RT for 20 min.



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

Description

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.

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.

Immunogen

Human recombinant full length protein was used as the immunogen for this TDP2 antibody.

Storage

Store the TDP2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).