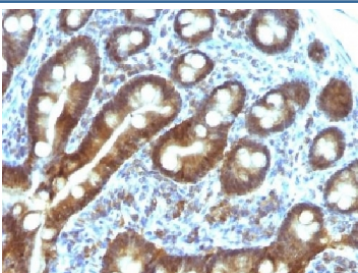


## TDP2 Antibody / Tyrosyl-DNA phosphodiesterase 2 / ETS1 associated protein II [clone TDP2/1258] (V3394)

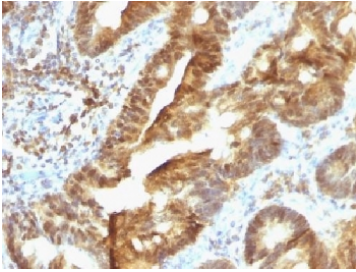
Catalog No.	Formulation	Size
V3394-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3394-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3394SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

### Bulk quote request

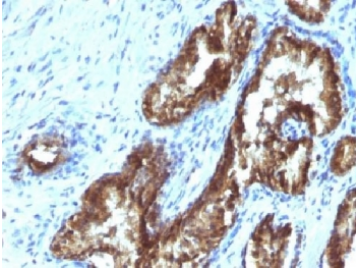
<b>Species Reactivity</b>	Human. Others not tested.
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	TDP2/1258
<b>Purity</b>	Protein G affinity chromatography
<b>Buffer</b>	1X PBS, pH 7.4
<b>UniProt</b>	O95551
<b>Localization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



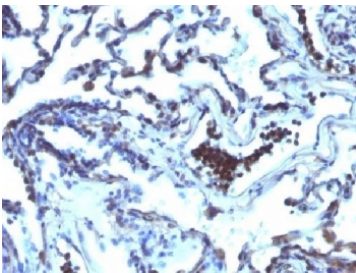
IHC testing of FFPE human duodenal carcinoma with TDP2 antibody (clone TDP2/1258). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



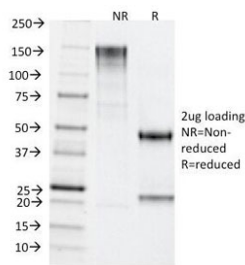
IHC testing of FFPE human colon carcinoma with TDP2 antibody (clone TDP2/1258).  
Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



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 titrated 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).