

Anti-TDP2 Antibody [TDP2/1258] (A249591)

Specifications:

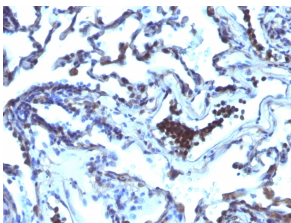
Name:	Anti-TDP2 Antibody [TDP2/1258]
Description:	Mouse monoclonal [TDP2/1258] antibody to TDP2.
Specificity:	This antibody recognizes a protein of 41kDa, which is identified as TDP2. It is a member of a superfamily of divalent cation-dependent phosphodiesterases. The encoded protein associates with 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.
Applications:	Flow Cytometry, IF, IHC-P
Recommended Dilutions:	Flow Cytometry: 1-2 µg/million cells, IF: 1-2 µg/ml, IHC-P: 1-2 µg/ml
Reactivity:	Human
Immunogen:	Recombinant full-length human TDP2 protein.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	TDP2/1258
Isotype:	IgG2b
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.

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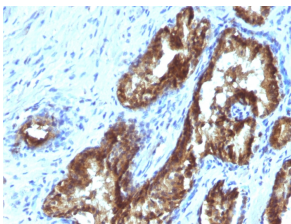
Specifications continued:

Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-TDP2 Antibody [TDP2/1258] - BSA and Azide free (A252771).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

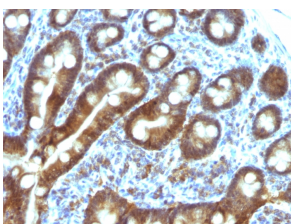
Images:



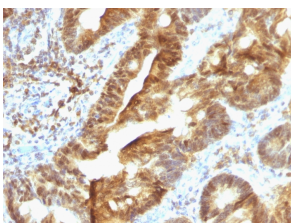
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human lung carcinoma using Anti-TDP2 Antibody [TDP2/1258].



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human prostate carcinoma using Anti-TDP2 Antibody [TDP2/1258].



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human duodenal carcinoma using Anti-TDP2 Antibody [TDP2/1258].



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human colon carcinoma using Anti-TDP2 Antibody [TDP2/1258].