

TDP2 / EAPII Antibody

Mouse Monoclonal Antibody [Clone TDP2/1258]

Catalog No	Format	Size
51567-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
51567-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
51567-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

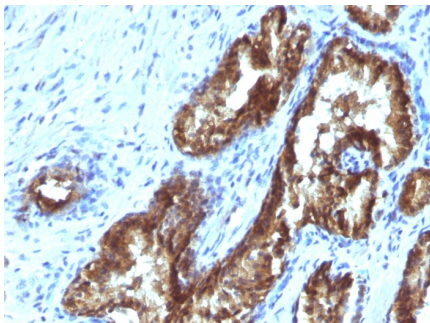
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

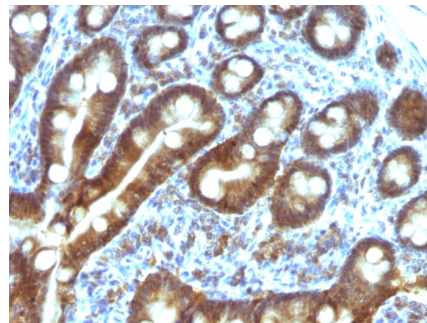
Clone	TDP2/1258
Gene Name	TDP2
Immunogen	Recombinant full-length human TDP2 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	~41kDa
Cellular Localization	Cytoplasm, Nucleolus, Nucleus, PML body
Species Reactivity	Human
Positive Control	Duodenum or Small Intestinal Carcinoma., Jurkat cells. Lung

*Optimal dilution for a specific application should be determined.

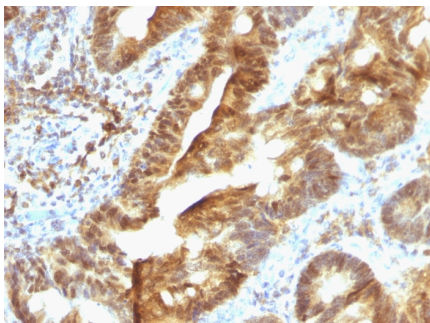
Product Images for TDP2 / EAPII Antibody



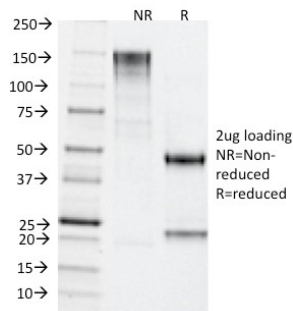
Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with TDP2 Mouse Monoclonal Antibody (TDP2/1258)



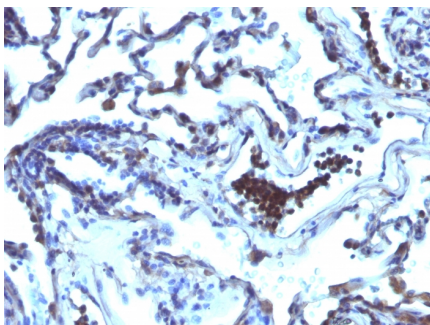
Formalin-fixed, paraffin-embedded human Duodenal Carcinoma stained with TDP2 Monoclonal Antibody (TDP2/1258)



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with TDP2 MAb (TDP2/1258)



SDS-PAGE Analysis of Purified TDP2 MAb (TDP2/1258). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Lung Carcinoma stained with TDP2 Mouse Monoclonal Antibody (TDP2/1258)

Specificity & Comments

This MAb 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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Nuclear Marker