

### 32-6029: Mouse Anti Human Tyrosyl-DNA phosphodiesterase 1(Clone: PAT1F2AT.)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	PAT1F2AT.
<b>Application :</b>	ELISA, WB
<b>Gene :</b>	TDP1
<b>Gene ID :</b>	55775
<b>Uniprot ID :</b>	Q9NUW8
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Tyrosyl-DNA phosphodiesterase 1, Tyr-DNA phosphodiesterase 1, TDP1, FLJ11090, MGC104252.
<b>Isotype :</b>	Mouse IgG2b heavy chain and ? light chain.
<b>Immunogen Information :</b>	Anti-human TDP1 mAb, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with recombinant human TDP1 amino acids 1-298 purified from E. coli.

#### Description

TDP1 belongs to the phospholipase D family and contains two PLD phosphodiesterase domains. TDP1 is involved in repairing stalled topoisomerase I-DNA complexes by catalyzing the hydrolysis of the phosphodiester bond between the tyrosine residue of topoisomerase I and the 3-prime phosphate of DNA. TDP1 may also remove glycolate from single-stranded DNA containing 3-prime phosphoglycolate, suggesting a role in repair of free-radical mediated DNA double-strand breaks. Mutations in the TDP1 gene are linked to the disease spinocerebellar ataxia with axonal neuropathy (SCAN1).

#### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	TDP1 antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.
<b>Content :</b>	1mg/ml containing PBS, pH-7.4, & 0.1% Sodium Azide.
<b>Storage condition :</b>	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

#### Application Note

TDP1 antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1000 ~ 2000. Recommended starting dilution is 1:1000.