

32-6028: Mouse Anti Human Thymine-DNA Glycosylase(Clone: PAT2F7A)

Clonality :	Monoclonal
Clone Name :	PAT2F7A
Application :	ELISA, WB
Gene :	TDG
Gene ID :	6996
Uniprot ID :	Q13569
Format :	Purified
Alternative Name :	Thymine-DNA Glycosylase, G/T Mismatch-Specific Thymine DNA Glycosylase, EC 3.2.2.29.
Isotype :	Mouse IgG1 heavy chain and Kappa light chain.
Immunogen Information :	Anti-human TDG mAb, clone PAT2F7A, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human TDG protein 1-410 amino acids purified from E. coli.

Description

Thymine-DNA glycosylase (TDG) is a member of the TDG/mug DNA glycosylase family. TDG is a nuclear protein that fixes G/T mismatches to G/C pairs by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and the mispaired thymine. In addition, TDG removes uracil and 5-bromouracil from mispairings with guanine. The TDG enzyme has an essential role in cellular defense against genetic mutation triggered by the spontaneous deamination of 5-methylcytosine and cytosine.

Product Info

Amount :	20 µg
Content :	1mg/ml containing PBS, pH-7.4, 10% Glycerol and 0.02% Sodium Azide.
Storage condition :	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

The antibody has been tested by ELISA, 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 starting dilution is 1:250.