



Anti-TDG (aa 250-350) polyclonal antibody (DPABH-23357)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description In the DNA of higher eukaryotes, hydrolytic deamination of 5-methylcytosine to thymine leads to the formation of G/T mismatches. This enzyme corrects G/T mispairs to G/C pairs. It is capable of hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and a mispaired thymine. In addition to the G/T, it can remove thymine also from C/T and T/T mispairs in the order G/T >> C/T > T/T. It has no detectable activity on apyrimidinic sites and does not catalyze the removal of thymine from A/T pairs or from single-stranded DNA. It can also remove uracil and 5-bromouracil from mispairs with guanine.

Immunogen	Synthetic peptide conjugated to KLH derived from within residues 250 - 350 of Human Thymine DNA glycosylase.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB, IP
Format	Liquid
Size	100 µg
Buffer	pH: 7.40; Constituent: PBS
Preservative	0.02% Sodium Azide

Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
----------------	--

GENE INFORMATION

Gene Name	TDG thymine-DNA glycosylase [Homo sapiens]
Official Symbol	TDG
Synonyms	TDG; thymine-DNA glycosylase; hTDG; G/T mismatch-specific thymine DNA glycosylase;
Entrez Gene ID	6996
Protein Refseq	NP_003202.3
UniProt ID	B4E127
Pathway	Base Excision Repair; Base excision repair; Base-free sugar-phosphate removal via the single-nucleotide replacement pathway; DNA Repair
Function	DNA N-glycosylase activity; RNA polymerase II transcription cofactor activity; SUMO binding; damaged DNA binding