

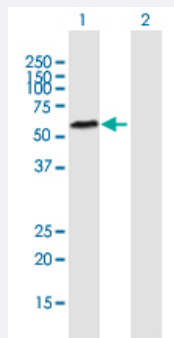
MaxPab®

TDG purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00006996-B01P

Size 50 ug

Applications

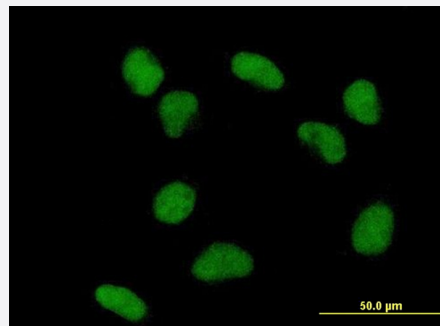


Western Blot (Transfected lysate)

Western Blot analysis of TDG expression in transfected 293T cell line ([H00006996-T01](#)) by TDG MaxPab polyclonal antibody.

Lane 1: TDG transfected lysate(45.1 KDa).

Lane 2: Non-transfected lysate.



Immunofluorescence

Immunofluorescence of purified MaxPab antibody to TDG on HeLa cell. [antibody concentration 10 ug/ml]

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human TDG protein.

Immunogen

TDG (AAH37557.1, 1 a.a. ~ 410 a.a) full-length human protein.

Sequence

MEAENAGSYSLQQAQAFYTFPFQQLMAEAPNMAVVNEQQMPPEVPAPAPAQEPVQEAPKGRK
RKPRTEPKQPVEPKPVESKKSGKSAKSKEKQEKITDTFKVKRKVDRFNGVSEAE LLTKLPDI
LTFNLDIVIGINPGLMAAYKGHHYPGPGNHFWKCLFMSGLSEVQLNHMDHTLPGKYGIGFTNMV
ERTTPGSKDLSSKEFREGGRILVQKLQKYQPRIAVFNGKCIYEIFSKEVFGVKVKNLEFGLQPHKIP
DTETLCYGMPSSSARCAQFPRAQDKVHYYIKLKDRLDQLKGIERNMDVQEVQYTFDLQLAQEDA
KKMAVKEEKYDPGYEAAAYGGAYGENPCSSPCGFSSNGLIESVELRGESAFSGIPNGQWMTQS
FTDQIPSFNHC GTQE QEEESHA

Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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[Protocol Download](#)

- Immunofluorescence

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Gene Info — TDG

Entrez GeneID	6996
GeneBank Accession#	BC037557.1
Protein Accession#	AAH37557.1
Gene Name	TDG
Gene Alias	-
Gene Description	thymine-DNA glycosylase
Omim ID	601423
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene belongs to the TDG/mug DNA glycosylase family. Thymine-DNA glycosylase (TDG) removes thymine moieties from G/T mismatches by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of DNA and the mispaired thymine. With lower activity, this enzyme also removes thymine from C/T and T/T mispairings. TDG can also remove uracil and 5-bromouracil from mispairings with guanine. This enzyme plays a central role in cellular defense against genetic mutation caused by the spontaneous deamination of 5-methylcytosine and cytosine. This gene may have a pseudogene in the p arm of chromosome 12. [provided by RefSeq]

Other Designations

G/T mismatch-specific thymine DNA glycosylase

Publication Reference

- [A Dual Network Hydrogel Sunscreen Based on Poly-γ-glutamic acid/Tannic Acid Demonstrates Excellent Anti-UV, Self-Recovery and Skin-Integration Capacities.](#)

Wang R, Wang X, Zhan Y, Xu Z, Xu Z, Feng X, Li S, Xu H.

ACS Applied Materials & Interfaces 2019 Oct; 11(41):37502.

Application: IF, Mouse, 3T3 fibroblasts

Pathway

- [Base excision repair](#)

Disease

- [Breast cancer](#)
- [Carcinoma](#)
- [DNA Damage](#)
- [Genetic Predisposition to Disease](#)
- [Graft vs Host Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)

- [Multiple Sclerosis](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)