

Rabbit anti-Human, Mouse G/T mismatch-specific thymine DNA glycosylase Polyclonal Antibody | anti-TDG antibody

Rabbit anti-human G/T mismatch-specific thymine DNA glycosylase polyclonal Antibody(TDG)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA119523	Rabbit	Human, Mouse	Immunohistochemistry, Western Blot, ELISA

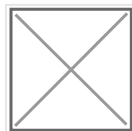
PRODUCT SYNONYMS

G/T mismatch-specific thymine DNA glycosylase; Polyclonal Antibody; Rabbit anti-human G/T mismatch-specific thymine DNA glycosylase polyclonal Antibody(TDG); Thymine-DNA glycosylase; hTDG; TDG; anti-TDG antibody

PRODUCT SPECIFICATIONS

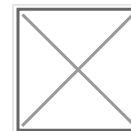
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purified
Sequence Length	410
Applicable Applications for anti-TDG antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Conjugate	Non-conjugated
Immunogen	Recombinant human G/T mismatch-specific thymine DNA glycosylase protein(141-410aa)
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-22845 / sc-22847 / sc-292440
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



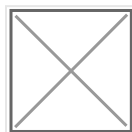
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon cancer using AAA119523 at dilution 1:100



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human heart using AAA119523 at dilution 1:100



WB (Western Blot)

All lanes: G/T mismatch-specific thymine DNA glycosylase antibody at 6ug/ml+mouse brain tissueSecondaryGoat polyclonal to rabbit at 1/10000 dilutionPredicted band size: 46kDaObserved band size: 46kDa

ADDITIONAL INFORMATION

Related Product Information for anti-TDG antibody	DNA glycosylase that plays a key role in active DNA demethylation: specifically recognizes and binds 5-formylcytosine (5fC) and 5-carboxylcytosine (5caC) in the context of CpG sites and mediates their excision through base-excision repair (BER) to install an unmethylated cytosine. Cannot remove 5-hydroxymethylcytosine (5hmC). According to an alternative model, involved in DNA demethylation by mediating DNA glycolase activity toward 5-hydroxymethyluracil (5hmU) produced by deamination of 5hmC. Also involved in DNA repair by acting as a thymine-DNA glycosylase that mediates correction of G/T mispairs to G/C pairs: in the DNA of higher eukaryotes, hydrolytic deamination of 5-methylcytosine to thymine leads to the formation of G/T mismatches. Its role in the repair of canonical base damage is however minor compared to its role in DNA demethylation. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	59853162
NCBI GeneID	6996
NCBI Accession #	NP_003202.3
NCBI GenBank Nucleotide #	NM_003211.4
UniProt Accession #	Q13569; Q8IUZ6; Q8IZM3
Molecular Weight	46,053 Da
NCBI Official Full Name	G/T mismatch-specific thymine DNA glycosylase
NCBI Official Synonym Full Names	thymine DNA glycosylase
NCBI Official Symbol	TDG
NCBI Official Synonym Symbols	hTDG
NCBI Protein Information	G/T mismatch-specific thymine DNA glycosylase
UniProt Protein Name	G/T mismatch-specific thymine DNA glycosylase
UniProt Gene Name	TDG
UniProt Synonym Gene Names	hTDG
UniProt Entry Name	TDG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/g-t-mismatch-specific-thymine-dna-glycosylase-antibody-immunohistochemistry-western-blot-elisa/119523>