

Product datasheet for TA808511AM

OriGene Technologies, Inc.

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Thymine DNA glycosylase (TDG) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3A12]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI3A12
Applications: IHC, WB
Recommended Dilution: IHC 1:150

Reactivity: Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Human recombinant protein fragment corresponding to amino acids 160-253 of human

TDG(NP 003202) produced in E.coli.

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 0.5 mg/ml

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Biotin

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 45.9 kDa

Gene Name: thymine DNA glycosylase

Database Link: NP 003202

Entrez Gene 21665 MouseEntrez Gene 114521 RatEntrez Gene 6996 Human

Q13569





Thymine DNA glycosylase (TDG) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3A12] – TA808511AM

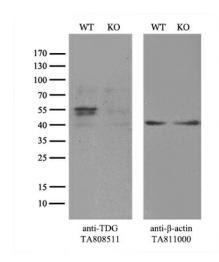
Background:

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, Jul 2008]

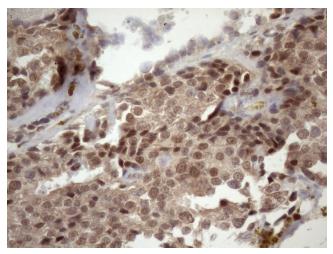
Synonyms: hTDG

Protein Families: Druggable Genome
Protein Pathways: Base excision repair

Product images:

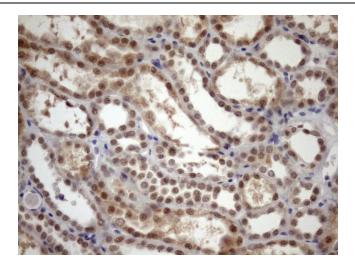


Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and TDG-Knockout Hela cells (KO, Cat# [LC810235]) were separated by SDS-PAGE and immunoblotted with anti-TDG monoclonal antibody [TA808511], (1:500). Then the blotted membrane was stripped and reprobed with antibactin antibody ([TA811000]) as a loading control.

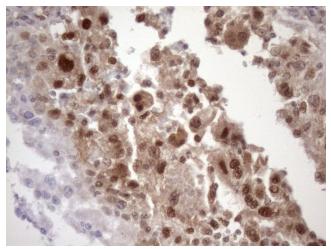


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human breast tissue using anti-TDG mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA808511]) (1:150)

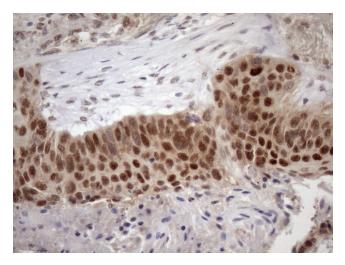




Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human colon tissue using anti-TDG mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA808511]) (1:150)



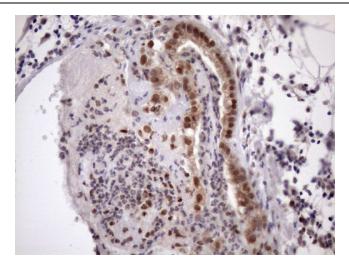
Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-TDG mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA808511]) (1:150)



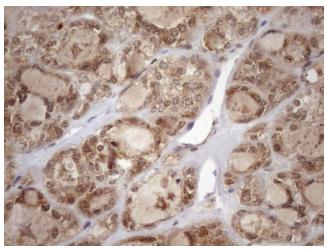
Immunohistochemical staining of paraffinembedded Carcinoma of Human lung tissue using anti-TDG mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA808511]) (1:150)



Thymine DNA glycosylase (TDG) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3A12] – TA808511AM



Immunohistochemical staining of paraffinembedded Carcinoma of Human pancreas tissue using anti-TDG mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA808511]) (1:150)



Immunohistochemical staining of paraffinembedded Carcinoma of Human thyroid tissue using anti-TDG mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA808511]) (1:150)