

#### OriGene Technologies, Inc.

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# Product datasheet for TA808511M

## Thymine DNA glycosylase (TDG) Mouse Monoclonal Antibody [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
lsotype:	lgG1
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:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
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:	<u>NP_003202</u> <u>Entrez Gene 21665 MouseEntrez Gene 114521 RatEntrez Gene 6996 Human</u> <u>Q13569</u>



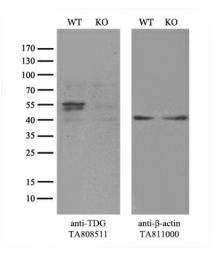
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### Serigene Thymine DNA glycosylase (TDG) Mouse Monoclonal Antibody [Clone ID: OTI3A12] – TA808511M

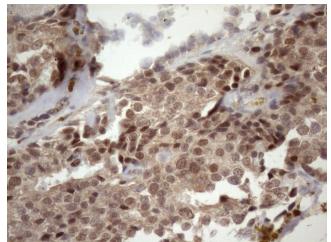
Background:The protein encoded by this gene belongs to the TDG/mug DNA glycosylase family. Thymine-<br/>DNA glycosylase (TDG) removes thymine moieties from G/T mismatches by hydrolyzing the<br/>carbon-nitrogen bond between the sugar-phosphate backbone of DNA and the mispaired<br/>thymine. With lower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

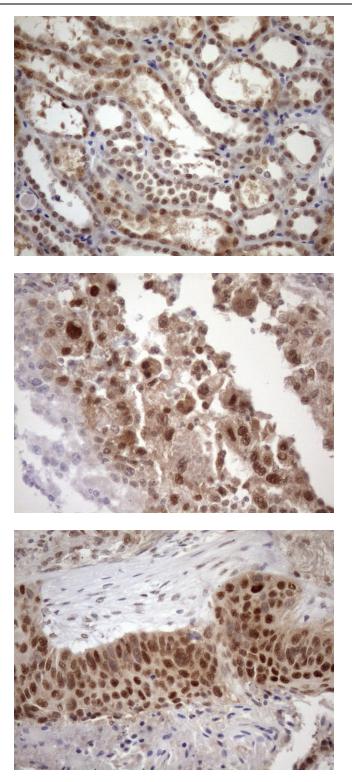


Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and TDG-Knockout Hela cells (KO, Cat# [LC810235]) were separated by SDS-PAGE and immunoblotted with anti-TDG monoclonal antibody [TA808511], (1:500). Then the blotted membrane was stripped and reprobed with antib-actin 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 EDTA solution buffer pH 8.0 at 120°C for 3 min.

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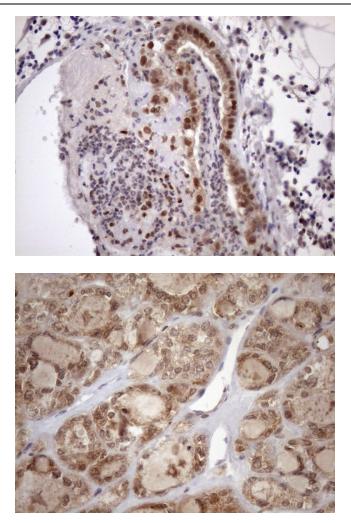


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human colon tissue using anti-TDG mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-TDG mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Carcinoma of Human lung tissue using anti-TDG mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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Immunohistochemical staining of paraffinembedded Carcinoma of Human pancreas tissue using anti-TDG mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Carcinoma of Human thyroid tissue using anti-TDG mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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