

OriGene Technologies, Inc.

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Product datasheet for TA801762BM

Thymidylate Synthase (TYMS) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1B2]

Product data:

Product Type:	Primary Antibodies		
Clone Name:	OTI1B2		
Applications:	IHC, WB		
Recommended Dilution:	WB 1:2000, IHC 1:150		
Reactivity:	Human, Mouse, Rat		
Host:	Mouse		
lsotype:	lgG2a		
Clonality:	Monoclonal		
Immunogen:	Full length human recombinant protein of human TYMS (NP_001062) produced in E.coli.		
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.		
Concentration:	0.5 mg/ml		
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)		
Conjugation:	HRP		
Storage:	Store at -20°C as received.		
Stability:	Stable for 12 months from date of receipt.		
Gene Name:	thymidylate synthetase		
Database Link:	<u>NP_001062</u> <u>Entrez Gene 22171 MouseEntrez Gene 29261 RatEntrez Gene 7298 Human</u> <u>P04818</u>		



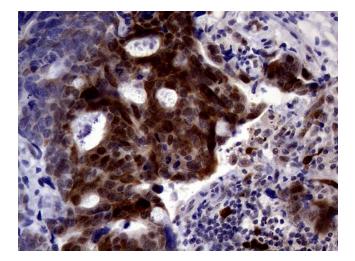
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	Thymidylate Synthase (TYMS) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1B2] – TA801762BM
Background:	Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of interest as a target for cancer chemotherapeutic agents. It is considered to be the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and some folate analogs. Expression of this gene and that of a naturally occuring antisense transcript rTSalpha (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase. [provided by RefSeq, Jul 2008]
Synonyms:	HST422; TMS; TS
Protein Familie	: Druggable Genome
Protein Pathwa	ys: Metabolic pathways, One carbon pool by folate, Pyrimidine metabolism

Product images:

170	_	
130	_	
100	_	
70	_	
55	_	
40	_	
35	—	-
25	-	
15	_	
10	_	

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TYMS ([RC204814], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TYMS. Positive lysates [LY420700] (100ug) and [LC420700] (20ug) can be purchased separately from OriGene.

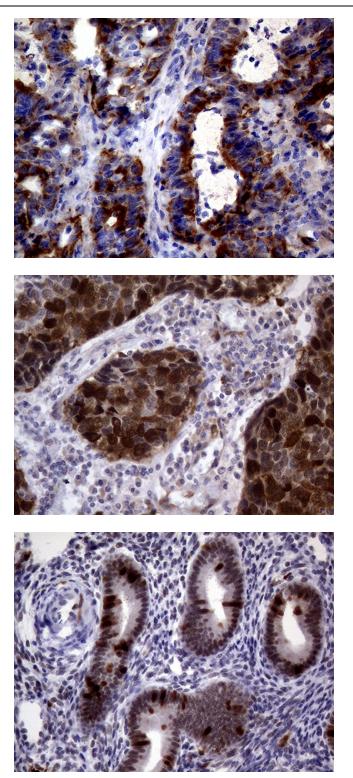


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human breast tissue tissue using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [TA801762]) (1:500)

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Thymidylate Synthase (TYMS) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1B2] – TA801762BM



Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human colon tissue using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH9.0) at 120°C for 3min, [TA801762]) (1:150)

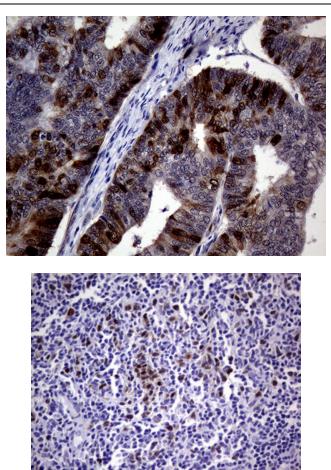
Immunohistochemical staining of paraffinembedded Carcinoma of Human lung tissue using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [TA801762]) (1:500)

Immunohistochemical staining of paraffinembedded Human endometrium tissue within the normal limits using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [TA801762]) (1:500)

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Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [TA801762]) (1:500)

Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-TYMS mouse monoclonal antibody. (Heatinduced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801762])

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