

OriGene Technologies, Inc.

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Product datasheet for TA801677AM

Thymidylate Synthase (TYMS) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3F1]

Product data:

Product Type:	Primary Antibodies	
Clone Name:	OTI3F1	
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 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:	35.5 kDa	
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>	



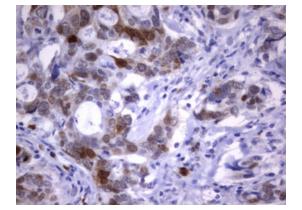
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	Thymidylate Synthase (TYMS) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3F1] – TA801677AM	
Background:	Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) 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 Families:	Druggable Genome	
Protein Pathways	Metabolic pathways, One carbon pool by folate, Pyrimidine metabolism	

Product images:

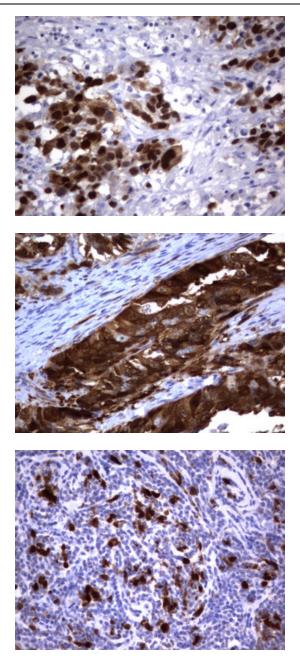
170	-	
130	-	
100	-	
70	-	
55	-	
40	-	
35	-	-
25	-	
15	-	
10	-	

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 using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801677])

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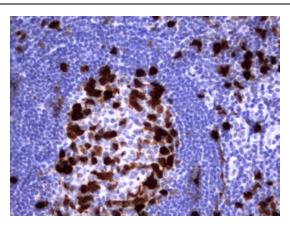


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human ovary tissue using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801677])

Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801677])

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, [TA801677])

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Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801677])

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