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Product datasheet for TA801762AM

Thymidylate Synthase (TYMS) Mouse Monoclonal Antibody (Biotin 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
Isotype:	IgG2a
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.
Gene Name:	thymidylate synthetase
Database Link:	NP_001062 Entrez Gene 22171 MouseEntrez Gene 29261 RatEntrez Gene 7298 Human P04818

View online »

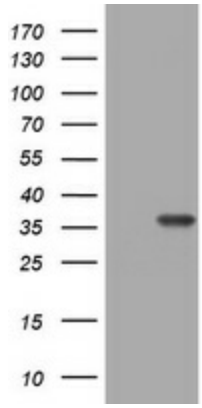
Background: Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of 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

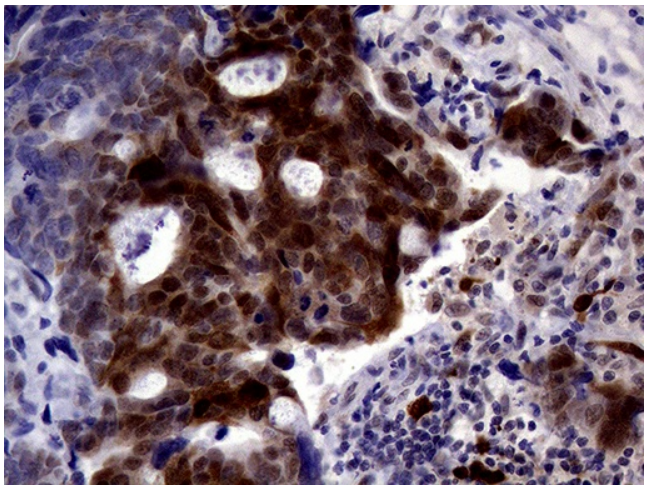
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, One carbon pool by folate, Pyrimidine metabolism

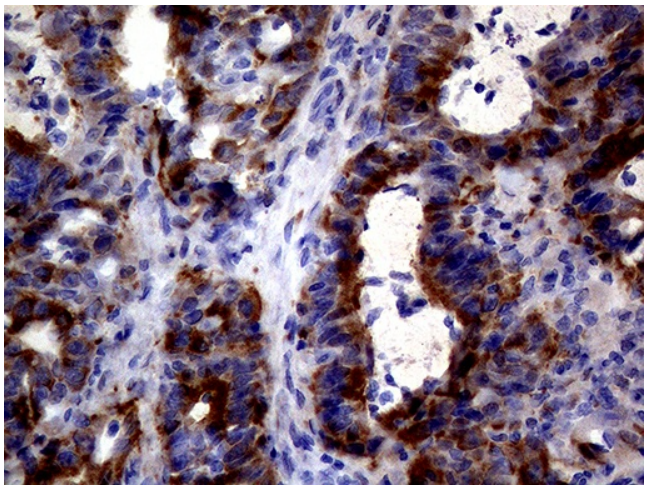
Product images:



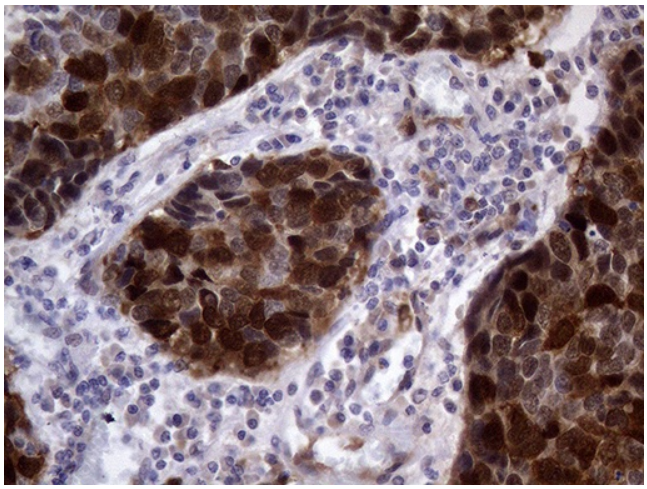
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TYMS ([RC204814], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TYMS. Positive lysates [LY420700] (100ug) and [LC420700]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



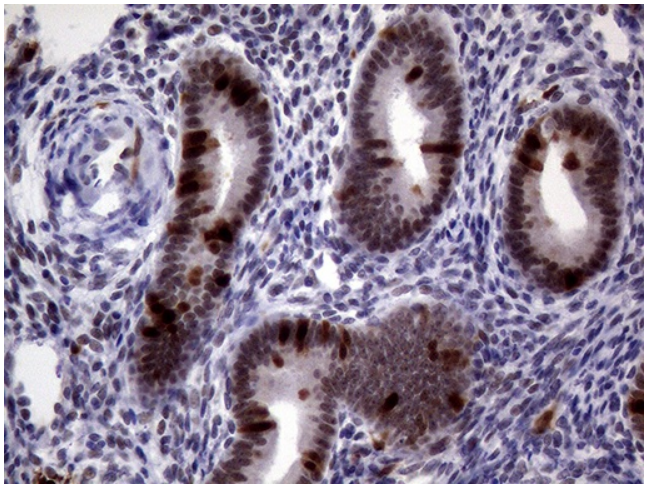
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue tissue using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [TA801762]) (1:500)



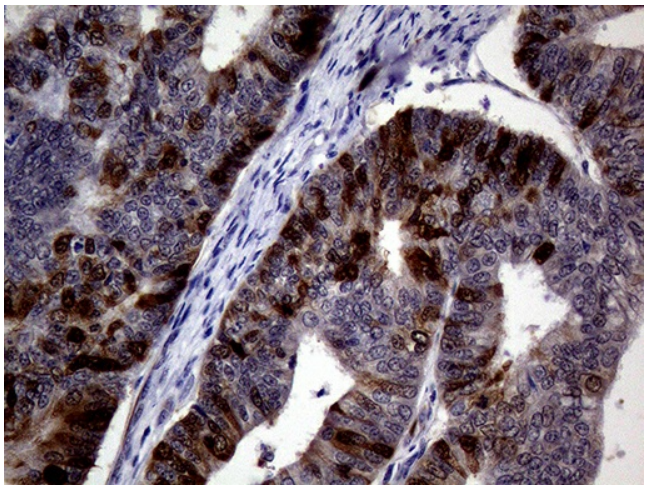
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH9.0) at 120°C for 3min, [TA801762]) (1:150)



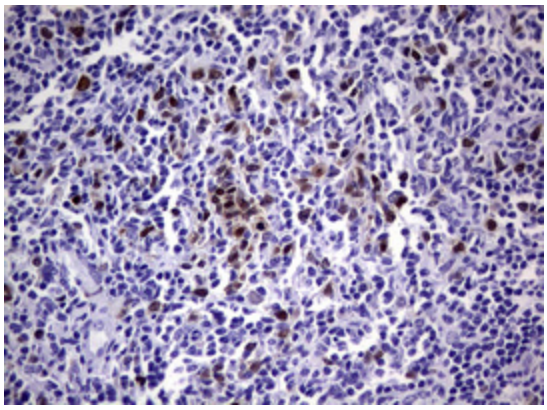
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-TYMS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [TA801762]) (1:500)



Immunohistochemical staining of paraffin-embedded 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)



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