TYMP Antibody – Rabbit

PRODUCT OVERVIEW

Product Name	TYMP, Antibody
Full Product Name	TYMP Antibody
Product Gene Name	anti-TYMP antibody
Product Synonym Names	TYMP; ECGF1; MNGIE; PDECGF; TP; hPD-ECGF
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Store at-20 degree C or-80 degree C. Avoid freeze/thaw cycles.
Molecular Weight	50kDa
OMIM	131222
3D Structure	ModBase 3D Structure for P19971
Immunogen	Recombinant protein of human TYMP
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-TYMP antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TYMP antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-TYMP antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-TYMP antibody	Thymidine phosphorylase (TP) is a platelet-derived endothelial cell growth factor (PD-ECGF) that catalyzes the formation of thymine and 2-deoxy-D-ribose-1-phosphate from thymidine and orthophosphate (1). This intracellular enzyme is capable of both promoting angiogenesis and inhibiting apoptosis. Thymidine phosphorylase catalytic activity is required for its angiogenic function (2, 3). Increased expression of TP/PD-ECGF is seen in a wide variety of different solid tumors and inflammatory diseases and is often associated with poor prognosis (4, 5). Alternatively, TP can activate fluorouracil derivative (DFUR) prodrugs and increase the antitumor activity of the related treatment (1, 5). The use of thymidine phosphorylase as a cancer therapeutic target has been studied extensively, with emphasis on either inhibiting TP enzymatic activity or increasing enzyme induction with concomitant DFUR treatment (1, 5).
Product References and Citations for anti-TYMP antibody	1. Rooseboom, M. et al. (2004) Pharmacol Rev 56, 53-102. 2. Moghaddam, A. and Bicknell, R. (1992) Biochemistry 31, 12141-6. 3. Furukawa, T. et al. (1992) Nature 356, 668. 4. Toi, M. et al. (2005) Lancet Oncol 6, 158-66. 5. Liekens, S. et al. (2007) Biochem Pharmacol 74, 1555-67.
Other Notes	Small volumes of anti-TYMP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TYMP purchase	MBS8504057 is an antibody targeting TYMP. Also known as TYMP Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TYMP. It may not necessarily be applicable to this product.

NCBI GI #	166158922
NCBI GeneID	1890
NCBI Accession #	NP_001107227.1
UniProt Primary Accession #	P19971
UniProt Secondary Accession #	Q13390; Q8WVB7; A8MW15; H9KVA0
UniProt Related Accession #	P19971
GenBank Nucleotide #	NM_001113755.2
NCBI Official Full Name	thymidine phosphorylase isoform 1
NCBI Official Synonym Full Names	thymidine phosphorylase
NCBI Official Symbol	TYMP
NCBI Official Synonym Symbols	TP; ECGF; ECGF1; MNGIE; MEDPS1; MTDPS1; PDECGF; hPD-ECGF
UniProt Protein Name	Thymidine phosphorylase
UniProt Synonym Protein Names	Gliostatin; Platelet-derived endothelial cell growth factor; PD-ECGF; TdRPase
UniProt Gene Name	TYMP
UniProt Synonym Gene Names	ECGF1; TP; PD-ECGF
NCBI Protein Information	thymidine phosphorylase
NCBI Summary for TYMP	This gene encodes an angiogenic factor which promotes angiogenesis in vivo and stimulates the in vitro growth of a variety of endothelial cells. It has a highly restricted target cell specificity acting only on endothelial cells. Mutations in this gene have been associated with mitochondrial neurogastrointestinal encephalomyopathy. Multiple alternatively spliced transcript variants have been identified. [provided by RefSeq, Apr 2012]
UniProt Comments for TYMP	May have a role in maintaining the integrity of the blood vessels. Has growth promoting activity on endothelial cells, angiogenic activity in vivo and chemotactic activity on endothelial cells in vitro.
Research Articles on TYMP	**1.** Data show that thymidine phosphorylase (TYMP) positive patients had higher systemic immune-inflammation index (SII) score.
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