MASTL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MASTL, Polyclonal Antibody
Full Product Name	MASTL Polyclonal Antibody
Product Gene Name	anti-MASTL antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	92kDa; 97kDa
OMIM	188000
3D Structure	ModBase 3D Structure for Q96GX5
Immunogen	Recombinant protein of human MASTL (NP_001165774.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MASTL antibody	Western Blot (WB)
Application Notes for anti-MASTL antibody	WB: 1:500-1:2000
Related Product Information for anti-MASTL antibody	This gene encodes a microtubule-associated serine/threonine kinase. Mutations at this locus have been associated with autosomal dominant thrombocytopenia, also known as thrombocytopenia-2. Alternatively spliced transcript variants have been described for this locus.
Other Notes	Small volumes of anti-MASTL 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 MASTL purchase	MBS8568986 is an antibody targeting MASTL. Also known as MASTL Polyclonal Antibody. Reactive in Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	288806587
NCBI GeneID	84930
NCBI Accession #	NP_001165774.1
UniProt Primary Accession #	Q96GX5
UniProt Related Accession #	Q96GX5

GenBank Nucleotide #	NP_001165774.1
NCBI Official Full Name	serine/threonine-protein kinase greatwall isoform 1
NCBI Official Synonym Full Names	microtubule associated serine/threonine kinase like
NCBI Official Symbol	MASTL
NCBI Official Synonym Symbols	GW; GWL; THC2; MAST-L; GREATWALL
UniProt Protein Name	Serine/threonine-protein kinase greatwall
UniProt Synonym Protein Names	Microtubule-associated serine/threonine-protein kinase-like
Protein Family	Serine/threonine-protein kinase greatwall
UniProt Gene Name	MASTL
UniProt Synonym Gene Names	GW; GWL; THC2; GW; GWL; hGWL; MAST-L
UniProt Entry Name	GWL_HUMAN
NCBI Protein Information	serine/threonine-protein kinase greatwall
UniProt Comments for MASTL	MASTL: Serine/threonine kinase that plays a key role in M phase by acting as a regulator of mitosis entry and maintenance. Acts by promoting the inactivation of protein phosphatase 2A (PP2A) during M phase: does not directly inhibit PP2A but acts by mediating phosphorylation and subsequent activation of ARPP19 and ENSA at 'Ser-62' and 'Ser-67', respectively. ARPP19 and ENSA are phosphatase inhibitors that specifically inhibit the PPP2R2D (PR55-delta) subunit of PP2A. Inactivation of PP2A during M phase is essential to keep cyclin-B1-CDK1 activity high. Following DNA damage, it is also involved in checkpoint recovery by being inhibited. Phosphorylates histone protein in vitro; however such activity is unsure in vivo. May be involved in megakaryocyte differentiation. Defects in MASTL are the cause of thrombocytopenia type 2 (THC2). Thrombocytopenia is defined by a decrease in the number of platelets in circulating blood, resulting in the potential for increased bleeding and decreased ability for clotting. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, AGC; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; AGC group; MAST family Chromosomal Location of Human Ortholog: 10p12.1 Cellular Component: nucleoplasm; centrosome; cytoplasm; nucleus; cleavage furrow Molecular Function: protein serine/threonine kinase activity; protein phosphatase 2A binding; kinase activity; ATP binding Biological Process: mitosis; regulation of cell cycle; cell division; mitotic cell cycle; G2/M transition of mitotic cell cycle; negative regulation of protein phosphatase type 2A activity; protein amino acid phosphorylation; response to DNA damage stimulus Disease: Thrombocytopenia 2
Research Articles on MASTL	**1.** Data show that MASTL expression increases in colon cancer (CC) across all cancer stages. Also, increased levels of MASTL associated with high-risk disease and poor prognosis. Further, its silencing induced cell cycle arrest and apoptosis in vitro and inhibited xenograft-tumor growth. Functional analysis revealed that MASTL expression facilitates CC progression and chemoresistance by promoting the beta-catenin/Wnt signa...
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