Rabbit anti-Human MASTL Polyclonal Antibody | anti-MASTL antibody

MASTL Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325407	**Rabbit**	**Human**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

PRODUCT SYNONYMS

MASTL; Polyclonal Antibody; MASTL Antibody; 2700091H24Rik; C88295; FLJ14813; GREATWALL; Greatwall protein kinase; GW; GWL; GWL_HUMAN; hGWL; MAST-L; Mastl; MGC117975; Microtubule associated serine/threonine kinase like; Microtubule-associated serine/threonine-protein kinase-like; RP11 85G18.2; Serine/threonine-protein kinase greatwall; THC2; anti-MASTL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	MASTL antibody detects endogenous levels of total MASTL
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	879
Applicable Applications for anti-MASTL antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm > Cytoskeleton > Centrosome. Nucleus. Cleavage Furrow. During interphase is mainly nuclear, upon nuclear envelope breakdown localizes at the cytoplasm and during mitosis at the centrosomes. Upon mitotic exit moves to the cleavage furrow.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using MASTL antibody.

IF (Immunofluorescence)
AAA325407 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MASTL antibody	Function: 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. Post-translational Modifications: Phosphorylation at Thr-741 by CDK1 during M phase activates its kinase activity (By similarity). Maximum phosphorylation occurs in prometaphase. Similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	288806587
NCBI GeneID	84930
NCBI Accession #	NP_001165774.1
NCBI GenBank Nucleotide #	NM_001172303.2
UniProt Accession #	Q96GX5; Q5T8D5; Q5T8D7; Q8NCD6; Q96SJ5
Molecular Weight	Observed: 97 kD Predicted: 98 kDa
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
NCBI Protein Information	serine/threonine-protein kinase greatwall
UniProt Protein Name	Serine/threonine-protein kinase greatwall
UniProt Gene Name	**MASTL**
UniProt Synonym Gene Names	GW; GWL; THC2; GW; GWL; hGWL; MAST-L

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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