

# MASTL Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP7147a

### **Specification**

## MASTL Antibody (N-term) Blocking Peptide - Product Information

**Primary Accession** 

**Q96GX5** 

## MASTL Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID 84930** 

#### **Other Names**

Serine/threonine-protein kinase greatwall, GW, GWL, hGWL, Microtubule-associated serine/threonine-protein kinase-like, MAST-L, MASTL, GW, GWL, THC2

### Target/Specificity

The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP7147a>AP7147a</a> was selected from the N-term region of human MASTL. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

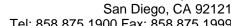
### MASTL Antibody (N-term) Blocking Peptide - Protein Information

**Name MASTL** 

Synonyms GW, GWL, THC2

### **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.





### **Cellular Location**

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Nucleus. Cleavage furrow. Note=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.

### MASTL Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

# • Blocking Peptides

MASTL Antibody (N-term) Blocking Peptide - Images

### MASTL Antibody (N-term) Blocking Peptide - Background

MASTL, microtubule associated serine/threonine kinase-like, contains 1 protein kinase domain which belongs to the Ser/Thr protein kinase family. It may be involved in megakaryocyte differentiation. Defects in MASTL are a cause of nonsyndromic autosomal

### MASTL Antibody (N-term) Blocking Peptide - References

Gandhi, M.J., et al., Hum. Hered. 55(1):66-70 (2003).