

MASTL Antibody

Catalog No: #34029

Package Size: #34029-1 50ul #34029-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

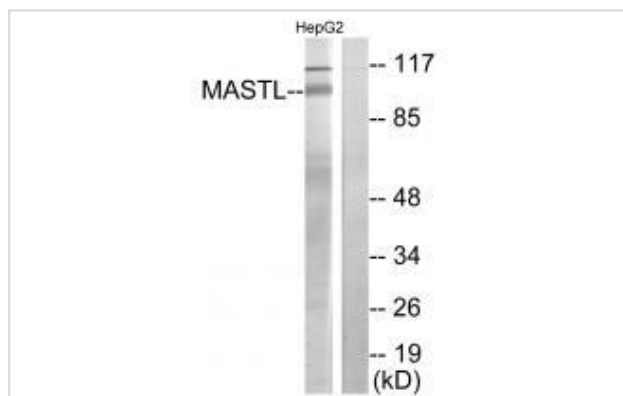
Description

| | |
|-----------------------|--|
| Product Name | MASTL Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Applications | WB |
| Species Reactivity | Hu Ms |
| Specificity | The antibody detects endogenous levels of total MASTL protein. |
| Immunogen Type | Peptide |
| Immunogen Description | Synthesized peptide derived from C-terminal of human MASTL. |
| Target Name | MASTL |
| Other Names | Microtubule-associated serine/threonine-protein kinase-like; EC 2.7.11.1; THC2; |
| Accession No. | Swiss-Prot: Q96GX5NCBI Gene ID: 84930 |
| Uniprot | Q96GX5 |
| GeneID | 84930; |
| SDS-PAGE MW | 97kd |
| Concentration | 1.0mg/ml |
| Formulation | Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C |

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from HepG2 cells, using MASTL antibody #34029.

Background

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.

Ota T., Nat. Genet. 36:40-45(2004).

Deloukas P., Nature 429:375-381(2004).

Beausoleil S.A., Nat. Biotechnol. 24:1285-1292(2006).

Note: This product is for in vitro research use only