

MASTL Antibody

Catalog No: #35289



Package Size: #35289-1 50ul #35289-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

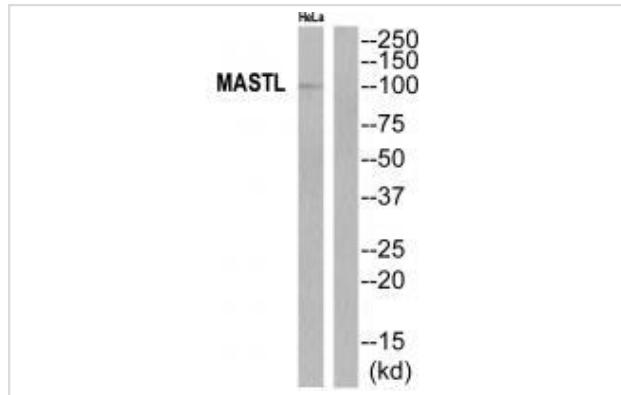
Description

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
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	FLJ14813; MASTL; microtubule associated serine/threonine kinase-like; Microtubule-associated serine/threonine-protein kinase-like; RP11-85G18.2
Accession No.	Swiss-Prot: Q96GX5NCBI Gene ID: 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 HeLa cells, using MASTL antibody #35289.

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 and is not intended for use in humans or animals.