

Recombinant Mouse Mastl Protein, Myc/DDK-tagged

Cat. No. Mastl-3968M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length microtubule associated serine/threonine kinase-like (Mastl), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	96.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Mastl microtubule associated serine/threonine kinase-like [Mus musculus (house mouse)]

Official Symbol Mastl

Synonyms MASTL; microtubule associated serine/threonine kinase-like; serine/threonine-protein kinase greatwall; microtubule-associated serine/threonine-protein kinase-like; GW; GWL; THC2; C88295; MAST-L; 2700091H24Rik; MGC117975

Gene ID 67121

mRNA Refseq NM_025979

Protein Refseq NP_080255

UniProt ID Q8C0P0

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