

Product datasheet for **TP511003**

Mastl (NM_025979) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Mouse microtubule associated serine/threonine kinase-like (Mastl), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species: Mouse
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >MR211003 representing NM_025979
Red=Cloning site **Green**=Tags(s)

MESASASEENEGGAAIEECVSRIPVPRPPSIEEFTIVKPISRGAFGKVVYLGQKGGKLYAVKVVKKADMIN
KNMTHQVQAERDALALS KSPFVHLYSLQASNIYLIMEYLIGGDVKSLLHIYGYFDEEMAIKYISEVA
LALDYLHRHGIIHRDLKPDNMLISNEGHIKLTDFGLSKVTLNRDINMMDILTPSMSKPKQDYSRTPGQV
LSLISSLGFFTPVGEKDQDSANMFSAPKSAAQLSRGFICPMSVDQKEPTSYSSKLLKSCFETLSSNPEIP
VKCLTSNLLQCRKRLGTSSTSSQSHTFVSSVESECHSNPKWERDCQSTESSGCAMSWNAVEMLYAKSTSA
IKTKTELELALSPIHDSSAIPAAGSNQVTLPRKCFREISWEARDPDNENMTIDKGQSGFCQSSQRSVNSS
ATSEEHLGKRNYKRNHFLVDSSPCQEIMQSKNCTEYEANKERQGCANQSTGLTTEVQNLKLSGCESQQ
LDYANKENIVTYLTDRQTPEKLIPTIAKNLMSLEDEDCELSSKDKCLSSNSVCSDEDRALKTTCVDSDS
SFPGVSMMESSLEIQALEPKSIRDYSFEENPTEDLFVLPKCQENSLPQDDCHACIQDSSQVSAHPSKAP
KALTSKINVVAFRSFNSHINASTNSEPSKISITSLDAMDISCDYSGSYPMAVSPTEKGRHYTSHQTPNQV
KLGTSYRTPKSVRRGAAPVDDGRILGTPDYLAPELLLGTAGPAVDWWALGVCLFEFLTGIPPFNDETPO
QVFQNILKRDIPWPEGEEKLSDNAQSAMDMLLTIDDSKRAGMRELKQHPLFSEVDWENLQHQTMPFVPQP
DDETDSYFEARNNAQHLTISGFSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK
Predicted MW: 96.4 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_080255
Locus ID:	67121
UniProt ID:	Q8C0P0
RefSeq Size:	4652
Cytogenetics:	2 A3
RefSeq ORF:	2595
Synonyms:	2700091H24Rik; C88295; GW; GWL; MAST-L; THC2
Summary:	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 (By similarity).[UniProtKB/Swiss-Prot Function]