

Product datasheet for TP300093L

Mps1 (TTK) (NM_003318) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human TTK protein kinase (TTK), 1 mg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC200093 protein sequence
Red=Cloning site Green=Tags(s)

MESEDLSGRELTIDSIMNKVRDIKNKFKNEDLTDELSLNKISADTTDNSGTVNQIMMMANNPEDWLSLLL
 KLEKNSVPLSDALLNKLIGRYSQAIEALPPDKYGQNESFARIQVRFAELKAIQEPDDARDYFQMARANCK
 KFAFVHISFAQFELSQGNVKKSKQLLQKAVERGAVPLEMLEIALRNLNLQKKQLLSEEEKKNLSASTVLT
 AQESFSGSLGHLQNRNNSCDSRGQTTKARFLYGENMPPQDAEIGYRNSLRQTNKTKQSCPFGRVNVNLLN
 SPDCDVKTTDDSVWPCFMKRQTSRSECRDLVWPGSKPSGNDSCELRNLSVQNSHFKEPLVSDEKSSSELI
 TDSITLKNKTESSLLAKLEETKEYQEPEVPESNQKQWQSKRKSECINQNPAASSNHWQIPELARKVNTEQ
 KHTTFEQPVFSVSKQSPPISTSKWFDPKSICKTPSSNTLDDYMSCFRTPVWKNDFPPACQLSTPYGQPAC
 FQQQQHQILATPLQNLQVLASSANECISVKGRIYSILKQIGSGGSSKVFQVLNEKKQIYAIFYVNLLEEA
 DNQTLDSYRNEIAYLNKLQQHSDKIIRLYDYEITDQYIYMVMCEGNIDLNSWLKKKKSIDPWERKSYWKN
 MLEAVHTIHQHGIVHSDLKPANFLIVDGMLKLIDFGIANQMOPDTTSVVKDSQVGTVNYMPPEAIKDMSS
 SRENGKSKSPKSDVWSLGCILYMTYGKTPFQQIINQISKLHAIIDPNHEIEFPDIPEKDLQDVLKC
 CLKRDPKQRISIPPELLAHPYVQIQTHPVNQMAKGTTEEMKYVLGQLVGLNSPNSILKAAKTLYEHYSGGE
 SHNSSSSKTFEKKRGKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

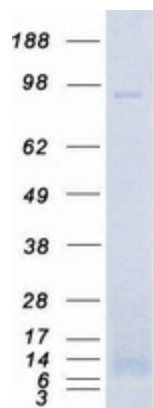
Tag: C-Myc/DDK
Predicted MW: 96.9 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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|--------------------------|---|
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| 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_003309 |
| Locus ID: | 7272 |
| UniProt ID: | P33981 |
| RefSeq Size: | 3010 |
| Cytogenetics: | 6q14.1 |
| RefSeq ORF: | 2571 |
| Synonyms: | CT96; ESK; MPH1; MPS1; MPS1L1; PYT |
| Summary: | This gene encodes a dual specificity protein kinase with the ability to phosphorylate tyrosine, serine and threonine. Associated with cell proliferation, this protein is essential for chromosome alignment at the centromere during mitosis and is required for centrosome duplication. It has been found to be a critical mitotic checkpoint protein for accurate segregation of chromosomes during mitosis. Tumorigenesis may occur when this protein fails to degrade and produces excess centrosomes resulting in aberrant mitotic spindles. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2009] |
| Protein Families: | Druggable Genome, Protein Kinase |
| Protein Pathways: | Cell cycle, Oocyte meiosis, TGF-beta signaling pathway, Ubiquitin mediated proteolysis, Wnt signaling pathway |

Product images:



Coomassie blue staining of purified TTK protein (Cat# [TP300093]). The protein was produced from HEK293T cells transfected with TTK cDNA clone (Cat# [RC200093]) using MegaTran 2.0 (Cat# [TT210002]).