

Product datasheet for TP504001

Npm1 (NM_008722) Mouse Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Mouse nucleophosmin 1 (Npm1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species: | Mouse |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >MR204001 protein sequence Red =Cloning site Green =Tags(s) |
| | MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRRTVSLGAGAKDELHIVEAEAMNYEGS PIKVTLATLKMSVQPTVSLGGFEITPPVWLRKCGSGPVIHSGQHLVAVEEDAEEDEDEEDVKLLGMSG KRSAPGGGNKVPQKKVKLDEDEDEDEDEDEDEDEDEDDDDDFDEEETEEKVPVKKSVRDTPAKNAQKSNQNG KDLKPSTPRSKGQESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQE AIQDLWQWRKSL |
| | TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-MYC/DDK |
| Predicted MW: | 32.6 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. |
| 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_032748 |
| Locus ID: | 18148 |
| UniProt ID: | Q61937 , Q5SQB7 |



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RefSeq Size: 1440

Cytogenetics: 11 A4

RefSeq ORF: 879

Synonyms: B23; NO38; Npm

Summary: Involved in diverse cellular processes such as ribosome biogenesis, centrosome duplication, protein chaperoning, histone assembly, cell proliferation, and regulation of tumor suppressors p53/TP53 and ARF. Binds ribosome presumably to drive ribosome nuclear export. Associated with nucleolar ribonucleoprotein structures and bind single-stranded nucleic acids. Acts as a chaperonin for the core histones H3, H2B and H4. Stimulates APEX1 endonuclease activity on apurinic/aprimidinic (AP) double-stranded DNA but inhibits APEX1 endonuclease activity on AP single-stranded RNA. May exert a control of APEX1 endonuclease activity within nucleoli devoted to repair AP on rDNA and the removal of oxidized rRNA molecules. In concert with BRCA2, regulates centrosome duplication. Regulates centriole duplication: phosphorylation by PLK2 is able to trigger centriole replication. Negatively regulates the activation of EIF2AK2/PKR and suppresses apoptosis through inhibition of EIF2AK2/PKR autophosphorylation. Antagonizes the inhibitory effect of ATF5 on cell proliferation and relieves ATF5-induced G2/M blockade. In complex with MYC enhances the transcription of MYC target genes.[UniProtKB/Swiss-Prot Function]