

Recombinant Human Nucleophosmin (nucleolar phosphoprotein B23, numatrin), His-tagged

Cat. No. NPM1-6799H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanNPM1 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	NPM1 is aphosphoprotein which moves between the nucleus and the cytoplasm. It isthought to be involved in several processes including regulation of theARF/p53 pathway. A number of genes are fusion partners have beencharacterized, in particular the anaplastic lymphoma kinase gene onchromosome 2. Mutations in NPM1 are associated with acute myeloid leukemia
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 10% glycerol 0.15M NaCl,1mM DTT
Molecular Weight	34.7kDa (314aa),confirmed by MALDI-TOF
Purity	> 85% by SDS -PAGE
Concentration	0.5 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MEDSMDMDMS PLRPQNYLFG CELKADKDYH FKVDNDENEH QLSLRTVSLG AGAKDELHIVEAEAMNYEGSPIKVTLATLK MSVQPTVSLG GFEITPPVVL RLKCGSGPVH ISGQHLVAVE

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EDAESEDEEEEDVKLLSISG KRSAPGGGSK VPQKKVKLAADEDDEDEDEE
 DDEDEDEDEDE FDDEEAEEKA PVKKSIRDTPAKNAQKSNQN GKDSKPSSTP
 RSKGQESFKK QEKTPKTPKG PSSVEDIKAKMQASIEKGGG
 LPKVEAKFINYVKNCFRMTD QEAIQDLWQW RKSL

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

aurora B signaling; BARD1 signaling events; chromosome Maintenance; deposition of New CENPA-containing Nucleosomes at the Centromere; HIF-1-alpha transcription factor network; HIV Infection; host Interactions of HIV factors; interactions of Rev with host cellular proteins; nuclear import of Rev protein; nucleosome assembly; validated targets of C-MYC transcriptional activation

GENE INFORMATION
Gene Name

NPM1 nucleophosmin (nucleolar phosphoprotein B23, numatrin) [Homo sapiens]

Official Symbol

NPM1

Synonyms

NPM1; nucleophosmin (nucleolar phosphoprotein B23, numatrin); B23; NPM; MGC104254; nucleophosmin; numatrin; OTTHUMP00000161024; OTTHUMP00000161025; OTTHUMP00000223397; OTTHUMP00000223398; nucleolar protein NO38; nucleophosmin/nucleoplasmin family, member 1

Gene ID

4869

mRNA Refseq

NM_199185

Protein Refseq

NP_954654

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MIM	164040
UniProt ID	P06748
Chromosome Location	5q35.1
Function	NF-kappaB binding; RNA binding; Tatprotein binding; histone binding; protein binding; protein heterodimerizationactivity; ribosomal large subunit binding; transcription coactivatoractivity; unfolded protein binding
PDB rendering based on 2p1b.	