

Recombinant Human NPM1, GST-tagged

Cat. No. NPM1-1417H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human NPM1(AAH02398.1, 1 a.a. - 295 a.a.) protein was expressed with a GST tag. MW = 58.450001 kDa (528 aa).
Species	Human
Description	NPM1 is associated with nucleolar ribonucleoprotein structures and bind single-stranded nucleic acids. It may be involved in the assembly and/or transport of ribosome. Its regulation through SUMOylation (by SENP3 and SENP5) is another facet of the proteins"s regulation and cellular functions. It is located in nucleolus, but it can be translocated to the nucleoplasm in case of serum starvation or treatment with anticancer drugs. The protein is phosphorylated.
Protein Sequence	MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKD ELHIVEAEAMNYEGSPIKVTLATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVBHISG QHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSKVPQKKVKLAADEDDEDDDDDE EDDDEDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKG QESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQ EAIQDLWQWRKSL
Applications	Enzyme-linked immunoabsorbent assay,Western Blot (Recombinant protein),Antibody Production,Protein Array.
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

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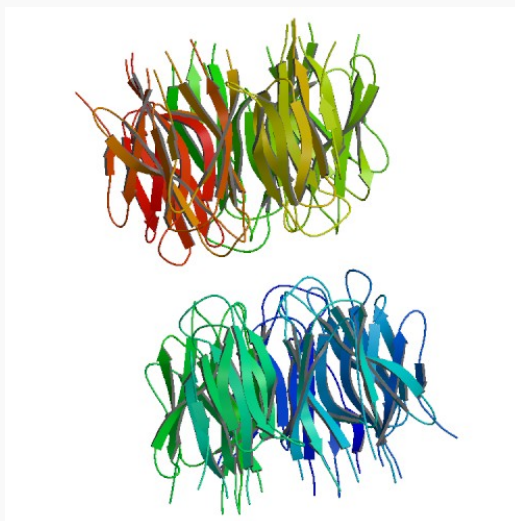
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing. Best use within three months from the date of receipt of this protein.
GENE INFORMATION	
Gene Name	NPM1 nucleophosmin (nucleolar phosphoprotein B23, numatrin) [Homo sapiens]
Synonyms	NPM1; nucleophosmin (nucleolar phosphoprotein B23, numatrin); B23; NPM; MGC104254; nucleophosmin 1; numatrin; nucleophosmin/nucleoplasmin family, member 1; Nucleolar protein NO38;Nucleolar phosphoprotein B23
Gene ID	4869
mRNA Refseq	NM_001037738
Protein Refseq	NP_001032827
MIM	164040
UniProt ID	P06748
Chromosome Location	5q35
Function	NF-kappaB binding; Tat protein binding; histone binding; protein heterodimerization activity; protein homodimerization activity; rRNA binding; ribosomal large subunit binding; ribosomal small subunit binding; transcription coactivator activity; unfolded protein binding

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PDB rendering based
on 2p1b.



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