

Recombinant Human NPM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NPM1-1253H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

NPM1 MS Standard C13 and N15-labeled recombinant protein (NP_954654) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

The protein encoded by this gene is involved in several cellular processes, including centrosome duplication, protein chaperoning, and cell proliferation. The encoded phosphoprotein shuttles between the nucleolus, nucleus, and cytoplasm, chaperoning ribosomal proteins and core histones from the nucleus to the cytoplasm. This protein is also known to sequester the tumor suppressor ARF in the nucleolus, protecting it from degradation until it is needed. Mutations in this gene are associated with acute myeloid leukemia. Dozens of pseudogenes of this gene have been identified.

Molecular Mass

29.5 kDa

AA Sequence

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKD
ELHIVEAEAMNYEGSPIKVTLATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISG
QHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSKVPQKKVKLADEDDEDDDDDE
EDDDEDDDDDDFDDEEAEEKAPVKKGQESFKKQEKTPKTPKGPSSVEDIKAKMQA
SIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSLTRTRPLEQKLISEEDL
AANDILDYKDDDDKV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	NPM1 nucleophosmin 1 [Homo sapiens (human)]
Official Symbol	NPM1
Synonyms	NPM1; nucleophosmin (nucleolar phosphoprotein B23, numatrin); nucleophosmin; B23; NPM; nucleolar phosphoprotein B23; nucleophosmin/nucleoplasmin family; member 1; numatrin; nucleolar protein NO38; nucleophosmin/nucleoplasmin family, member 1; MGC104254;
Gene ID	4869
mRNA Refseq	NM_199185
Protein Refseq	NP_954654
MIM	164040
UniProt ID	P06748

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SDS-PAGE



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