

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

**Cat. No.** NPM1-1607H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | NPM1 MS Standard C13 and N15-labeled recombinant protein (NP_001032827) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 28.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKD<br>ELHIVEAEAMNYEGSPIKVTLATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVIHISG<br>QHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSKVPQKKVKLAADEDDEDDDDDE<br>EDDDEDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKG<br>QESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKAHTRTRPLEQKLISEEDLAANDILD<br>YKDDDDKV                                                                                                                                                                                                                                                                          |

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

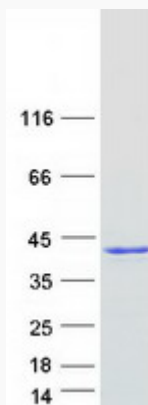
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">NPM1 nucleophosmin 1 [ Homo sapiens (human) ]</a>                                                                                                                                                                                                 |
| <b>Official Symbol</b> | <a href="#">NPM1</a>                                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | <a href="#">4869</a>                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | <a href="#">NM_001037738</a>                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | <a href="#">NP_001032827</a>                                                                                                                                                                                                                                  |
| <b>MIM</b>             | <a href="#">164040</a>                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>      | <a href="#">P06748</a>                                                                                                                                                                                                                                        |

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**SDS-PAGE**

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