

## **Product datasheet for TP303841M**

## OriGene Technologies, Inc.

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## Nucleophosmin (NPM1) (NM\_199185) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human nucleophosmin (nucleolar phosphoprotein B23, numatrin)

(NPM1), transcript variant 2, 100 μg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC203841 protein sequence

or AA Sequence: Red=Cloning site Green=Tags(s)

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYE

GS

PIKVTLATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAESEDEEEEDVKLLSISG

Κ

GPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Tag: C-Myc/DDK

Predicted MW: 29.3 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

**Bioactivity:** Enzyme substrate (PMID: 29804834)

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

**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.

**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 954654

 Locus ID:
 4869

 UniProt ID:
 P06748

 RefSeq Size:
 1362

 Cytogenetics:
 5q35.1

 RefSeq ORF:
 795

Synonyms: B23; NPM

**Summary:** The protein encoded by this gene is involved in several cellular processes, including

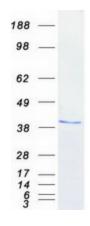
centrosome duplication, protein chaperoning, and cell proliferation. The encoded phosphoprotein shuttles between the nucleolus, nucleus, and cytoplasm, chaperoning ribosomal proteins and core histones from the nucleus to the cytoplasm. This protein is also

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. [provided by RefSeq,

Aug 2017]

**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors

## **Product images:**



Coomassie blue staining of purified NPM1 protein (Cat# [TP303841]). The protein was produced from HEK293T cells transfected with NPM1 cDNA clone (Cat# [RC203841]) using MegaTran 2.0 (Cat# [TT210002]).