

# **Product datasheet for TP303841L**

### 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, 1 mg

Species: Human Expression Host: HEK293T

**Expression cDNA** >RC203841 protein sequence Clone or AA Sequence: Red=Cloning site Green=Tags(s)

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGS

PIKVTLATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAESEDEEEEDVKLLSISG

KRSAPGGGSKVPQKKVKLAADEDDDDDDEEDDDDDDDDDDDDDDDDDEEAEEKAPVKKGQESFKKQEKTPKTPK

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



#### Nucleophosmin (NPM1) (NM\_199185) Human Recombinant Protein - TP303841L

**Locus ID:** 4869

UniProt ID: <u>P06748</u>, <u>A0A0S2Z4G7</u>

RefSeq Size: 1362 Cytogenetics: 5q35.1 RefSeq ORF: 795

Synonyms: B23; NPM

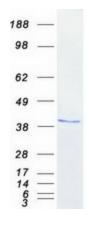
**Summary:** The protein encoded by this gene is involved in several cellular processes, including centrosome

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]).