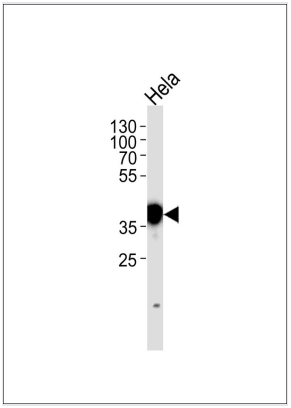
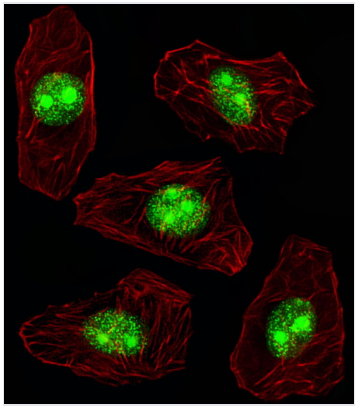
NPM1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

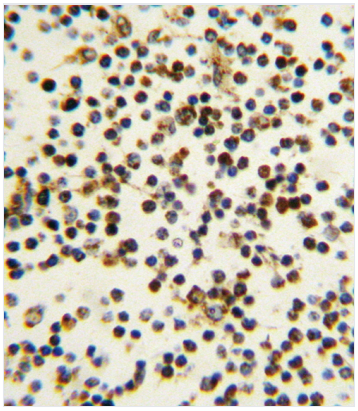
Product Name	NPM1, Polyclonal Antibody
Full Product Name	NPM1, NT (Nucleophosmin, NPM, Nucleolar Phosphoprotein B23, Numatrin, Nucleolar Protein NO38, NPM)
Product Gene Name	anti-NPM1 antibody
Product Synonym Names	Anti -NPM1, NT (Nucleophosmin, NPM, Nucleolar Phosphoprotein B23, Numatrin, Nucleolar Protein NO38, NPM)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Purified Purified by ammonium sulfate precipitation.
Specificity	Recognizes human NPM1.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	32,575 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (170814652..170837888). Location: 5q35.1
OMIM	164040
3D Structure	ModBase 3D Structure for P06748
Immunogen	KLH-conjugated synthetic peptide corresponding to a portion of amino acids within aa13-42 from the C-terminal region of human NPM1.
Product Categories/Family for anti-NPM1 antibody	Antibodies; Abs to Nuclear Proteins
Applications Tested/Suitable for anti-NPM1 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-NPM1 antibody	Suitable for use in ELISA, Western Blot, and Immunohistochemistry. Dilution: ELISA: 1:1000 Western Blot: 1:50-1:100 Immunohistochemistry: 1:10-1:50
Related Product Information for anti-NPM1 antibody	NPM1 is a ubiquitously expressed nucleolar protein that shuttles between the nucleus and cytoplasm. It is implicated in multiple functions, including ribosomal protein assembly and transport, control of centrosome duplication, and regulation of the tumor suppressor ARF. NPM1 mutations that relocalize NPM1 from the nucleus into the cytoplasm are associated with development of acute myeloid leukemia.
Other Notes	Small volumes of anti-NPM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NPM1 purchase	MBS624584 is an antibody targeting NPM1. Also known as NPM1, NT (Nucleophosmin, NPM, Nucleolar Phosphoprotein B23, Numatrin, Nucleolar Protein NO38, NPM). Reactive in Human. Host: Rabbit.



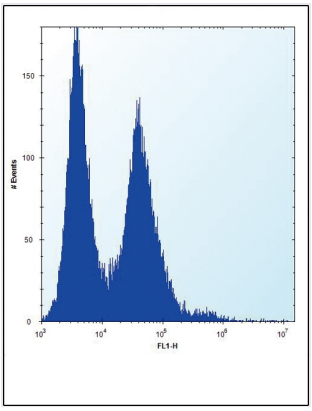
Western Blot (WB) of anti-NPM1 antibody
NPM1 Antibody (N-term) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the NPM1 antibody detected the NPM1 protein (arrow).



Immunofluorescence (IF) of anti-NPM1 antibody
Fluorescent image of A549 cell stained with NPM1 Antibody (N-term).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with NPM1 primary antibody (1:25, 1 h at 37?). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37?).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37?).NPM1 immunoreactivity is localized to Nucleus and Nucleolus significantly.



Immunohistochemistry (IHC) of anti-NPM1 antibody
Formalin-fixed and paraffin-embedded human lymph tissue reacted with NPM1 antibody (N-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-NPM1 antibody
NPM1 Antibody (N-term) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPM1. It may not necessarily be applicable to this product.

NCBI GI #	83641870
NCBI GeneID	4869
NCBI Accession #	NP_001032827.1
UniProt Primary Accession #	P06748
UniProt Secondary Accession #	P08693; Q12826; Q13440; Q13441; Q14115; Q5EU94; Q5EU95; Q5EU96; A8K3N7; B5BU00; D3DQL6
UniProt Related Accession #	P06748
GenBank Nucleotide #	NM_001037738.2
NCBI Official Full Name	nucleophosmin isoform 3
NCBI Official Synonym Full Names	nucleophosmin (nucleolar phosphoprotein B23, numatrin)
NCBI Official Symbol	NPM1
NCBI Official Synonym Symbols	B23; NPM

UniProt Protein Name	Nucleophosmin
UniProt Synonym Protein Names	Nucleolar phosphoprotein B23; Nucleolar protein NO38; Numatrin
Protein Family	Nucleophosmin
UniProt Gene Name	NPM1
UniProt Synonym Gene Names	NPM; NPM
UniProt Entry Name	NPM_HUMAN
NCBI Protein Information	nucleophosmin; nucleolar protein NO38; nucleophosmin/nucleoplasmin family, member 1
NCBI Summary for NPM1	This gene encodes a phosphoprotein which moves between the nucleus and the cytoplasm. The gene product is thought to be involved in several processes including regulation of the ARF/p53 pathway. A number of genes are fusion partners have been characterized, in particular the anaplastic lymphoma kinase gene on chromosome 2. Mutations in this gene are associated with acute myeloid leukemia. More than a dozen pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Nov 2009]
UniProt Comments for NPM1	NPM1: a nucleolar protein associated with nucleolar ribonucleoprotein structures and that binds single-stranded nucleic acids. Is a major component of template activating factor (TAF)-III. It plays a role in controlling centrosome duplication, and may function in the assembly and/or transport of the ribosome. Two alternatively spliced isoforms have been described. Protein type: Translation; RNA-binding; Oncoprotein; Nucleolus Chromosomal Location of Human Ortholog: 5q35.1 Cellular Component: nucleoplasm; centrosome; focal adhesion; membrane; cytoplasm; nucleolus; spindle pole centrosome; nucleus; ribonucleoprotein complex; cytosol Molecular Function: protein homodimerization activity; protein kinase inhibitor activity; histone binding; RNA binding; unfolded protein binding; transcription coactivator activity; protein kinase binding; ribosomal large subunit binding; NF-kappaB binding; protein binding; Tat protein binding; protein heterodimerization activity; ribosomal small subunit binding Biological Process: regulation of centriole replication; positive regulation of translation; viral reproduction; centrosome cycle; cell aging; nucleocytoplasmic transport; DNA repair; signal transduction; protein oligomerization; activation of NF-kappaB transcription factor; intracellular protein transport; nucleosome assembly; negative regulation of cell proliferation; regulation of endodeoxyribonuclease activity; protein localization; DNA replication-independent nucleosome assembly at centromere; ribosome assembly; response to stress; negative regulation of apoptosis
Research Articles on NPM1	**1.** although cytoplasmic expression of NPM1 (NPMc+)can be used as a marker for diagnosing relapsed disease, it is not correlated with NPM1 mutation and should not be used by clinicians as a prognostic marker for risk assessment.
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