Product Datasheet

NPM1 Antibody (NPM1/3287)
NBP2-79741-100ug

Unit Size: 100 ug

Store at 4C.

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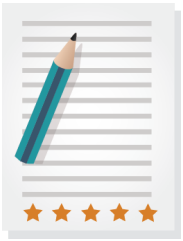


NBP2-79741-100ug

NPM1 Antibody (NPM1/3287)

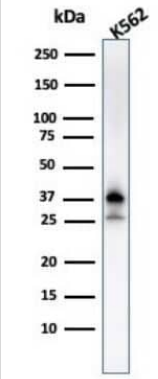
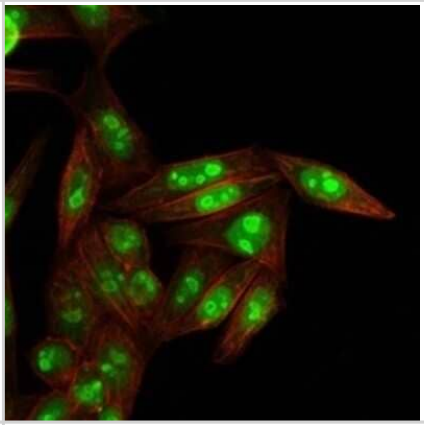
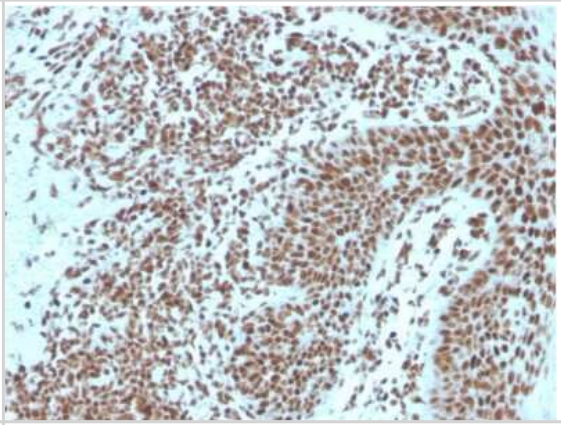
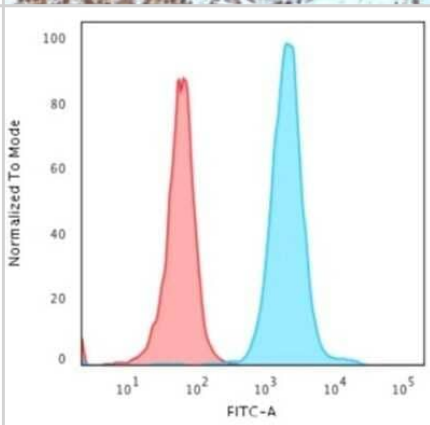
Product Information	
Unit Size	100 ug
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	NPM1/3287
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	33 kDa

Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-79876) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.
Host	Mouse
Gene ID	4869
Gene Symbol	NPM1
Species	Human
Marker	Acute Myeloid Leukemia Marker
Specificity/Sensitivity	Recognizes a 33kDa glycoprotein, identified as NPM1 (NPM). It is predominantly localized in the nucleus of cells in most tissues. NPM is involved in ribosomal assembly and rRNA transport. It is an abundant protein that is highly phosphorylated by Cdc2 kinase during mitosis. This phosphoprotein moves between the nucleus and the cytoplasm. It is thought to be involved in several processes including regulation of the ARF/p53 pathway. A number of genes are fusion partners, in particular the anaplastic lymphoma kinase gene on chromosome 2. Mutations in exon 12 affecting the C-terminus of the protein are associated with an aberrant cytoplasmic location. Mutations in this gene are associated with acute myeloid leukemia. The antibody may be a useful aid for classification of acute myeloid leukemia.
Immunogen	Recombinant fragment (around aa185-287) of human NPM1 protein (exact sequence is proprietary) (Uniprot: P06748)

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, ELISA 2-4 ug/ml, Immunohistochemistry 1-2 ug/ml, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Protein Array

Application Notes	ELISA: Use Ab at 2-4ug/ml for coating. Order Ab without BSA. Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

Images

Western Blot: NPM1 Antibody (NPM1/3287) [NBP2-79741] - Western Blot Analysis of K562 cell lysate using NPM1 Antibody (NPM1/3287).	
Immunocytochemistry/Immunofluorescence: NPM1 Antibody (NPM1/3287) [NBP2-79741] - Immunofluorescence staining of HeLa cells using NPM1 antibody (NPM1/3287) followed by GAM IgG-CF488 (green). Membrane stained with phalloidin (red).	
Immunohistochemistry-Paraffin: NPM1 Antibody (NPM1/3287) [NBP2-79741] - Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with NPM1 Antibody (NPM1/3287).	
Flow Cytometry: NPM1 Antibody (NPM1/3287) [NBP2-79741] - Flow Cytometric Analysis of PFA-fixed HeLa cells using NPM1 antibody (NPM1/3287) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).	

Protein Array: NPM1 Antibody (NPM1/3287) [NBP2-79741] - Analysis of Protein Array containing more than 19,000 full-length human proteins using NPM1 Antibody (NPM1/3287) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5	

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Products Related to NBP2-79741-100ug

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
NB110-61646PEP	NPM1 Antibody Blocking Peptide

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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