

# Product Datasheet

## NPM1 Antibody (NPM1/1902) - Azide and BSA Free NBP2-79874

Unit Size: 100 ug

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-79874**

NPM1 Antibody (NPM1/1902) - Azide and BSA Free

Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	NPM1/1902
Preservative	No Preservative
Isotype	IgG2b Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	33 kDa

Product Description	
Description	<p>1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA &amp; azide. Also available at 200 ug/ml WITH BSA &amp; azide (NBP2-79739).</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.</p>
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, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA 2-4 ug/ml, Immunohistochemistry 1-2 ug/ml, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Protein Array

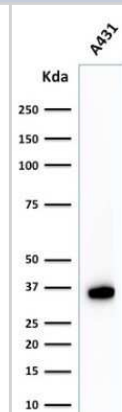


**Application Notes**

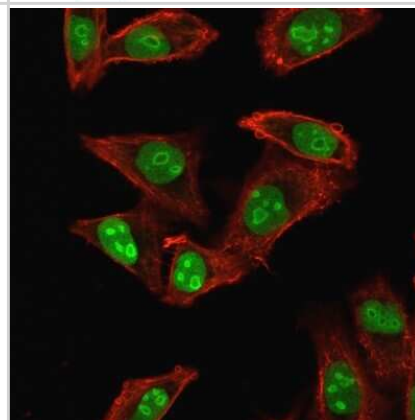
ELISA: Use Ab at 2-4ug/ml for coating. Order Ab without BSA.  
 Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes.  
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

**Images**

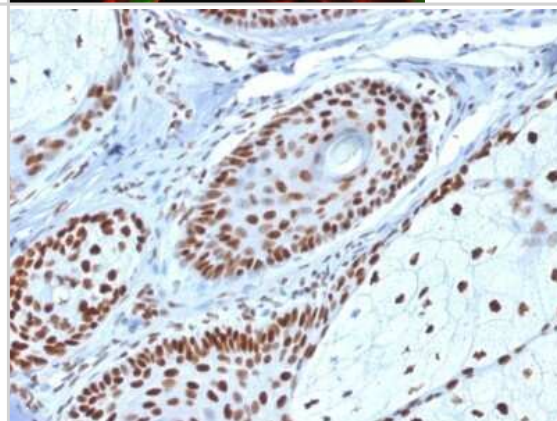
Western Blot: NPM1 Antibody (NPM1/1902) - Azide and BSA Free [NBP2-79874] - Western Blot Analysis of A431 cell lysate using NPM1 Antibody (NPM1/1902).



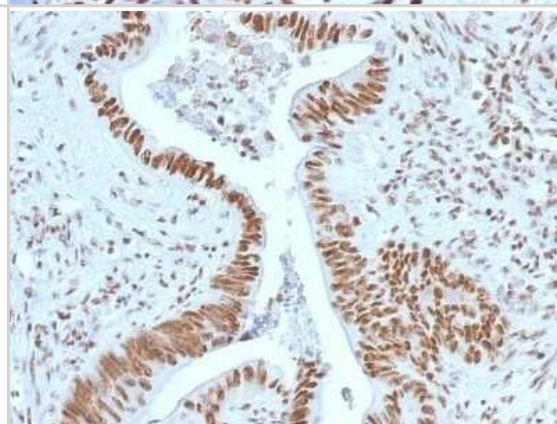
Immunocytochemistry/Immunofluorescence: NPM1 Antibody (NPM1/1902) - Azide and BSA Free [NBP2-79874] - Immunofluorescence staining of HeLa cells using NPM1-Monospecific Mouse Monoclonal Antibody (NPM1/1902) followed by goat anti-mouse IgG-CF488 (green). Phalloidin counterstain.



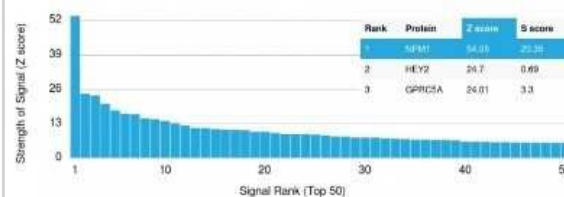
Immunohistochemistry-Paraffin: NPM1 Antibody (NPM1/1902) - Azide and BSA Free [NBP2-79874] - Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with NPM1 Antibody (NPM1/1902).



Immunohistochemistry-Paraffin: NPM1 Antibody (NPM1/1902) - Azide and BSA Free [NBP2-79874] - Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with NPM1 Antibody (NPM1/1902).



**Protein Array: NPM1 Antibody (NPM1/1902) - Azide and BSA Free [NBP2-79874]** - Analysis of Protein Array containing more than 19,000 full-length human proteins using NPM1 Antibody (NPM1/1902) Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (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 MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5.





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### **Products Related to NBP2-79874**

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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

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### **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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