

# Product Datasheet

## NPM1 Antibody - BSA Free

### NB110-61646

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB110-61646**

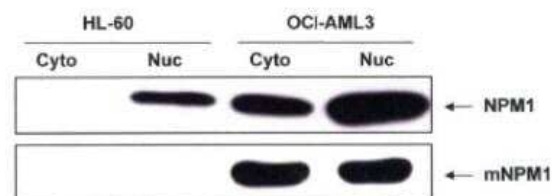
NPM1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.4)
Target Molecular Weight	37 kDa
Product Description	
Host	Rabbit
Gene ID	4869
Gene Symbol	NPM1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30214626).
Specificity/Sensitivity	This antibody is specific for the mutant form of Nucleophosmin.
Immunogen	A synthetic peptide made to a C-terminal region of human mutant Nucleophosmin (within residues 250-294). [Accession# AAW67752]
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, Flow Cytometry 1:100, Immunohistochemistry 1:50 - 1:100, Immunocytochemistry/ Immunofluorescence 1:50 - 1:100, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 1:50 - 1:100
Application Notes	In WB a band can be seen at ~37 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

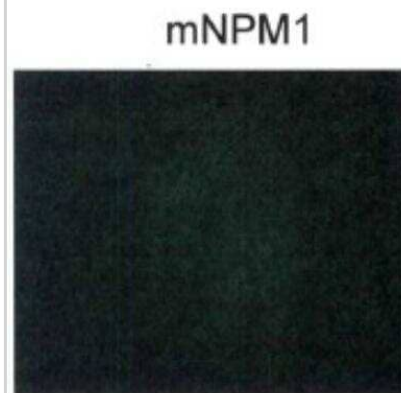


## Images

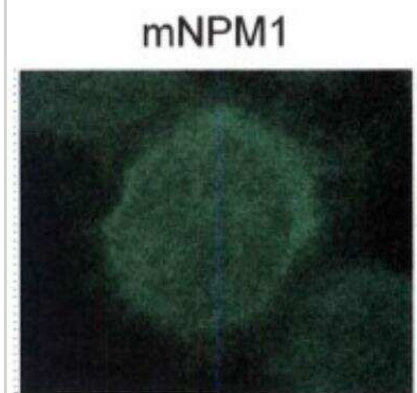
Western Blot: Nucleophosmin Antibody [NB110-61646] - Detection of mutant Nucleophosmin in OCI-AML3 lysates.



Immunocytochemistry/Immunofluorescence: Nucleophosmin Antibody [NB110-61646] - Nucleophosmin localization by immunofluorescence in HL-60 cells (negative control).



Immunocytochemistry/Immunofluorescence: Nucleophosmin Antibody [NB110-61646] - Nucleophosmin localization by immunofluorescence in OCI-AML3 cells.



## Publications

Wang XQD, Fan D, Han Q et al. Mutant NPM1 Hijacks Transcriptional Hubs to Maintain Pathogenic Gene Programs in Acute Myeloid Leukemia Cancer discovery 2023-03-01 [PMID: 36455589] (WB, IP, ICC/IF)

Details:  
Cut & Run

El-Gamal RAE, Hashem AE, Habashy DM et al. Flow cytometry in detection of Nucleophosmin 1 mutation in acute myeloid leukemia patients: A reproducible tertiary hospital experience Int J Lab Hematol 2020-08-27 [PMID: 32856429]

Details:  
Citation using the DyLight 488 format of this antibody.

Li Y, Ivica NA, Dong T et al. MFSD7C switches mitochondrial ATP synthesis to thermogenesis in response to heme Nat Commun 2020-09-24 [PMID: 32973183] (WB, Mouse)

Zhang W, Zhao C, Zhao J et al. Inactivation of PBX3 and HOXA9 by down-regulating H3K79 methylation represses NPM1-mutated leukemic cell survival Theranostics 2018-08-12 [PMID: 30214626] (WB, ICC/IF, Mouse)



## Procedures

### Western Blot Protocol for Nucleophosmin Antibody (NB110-61646)

NPM1 Antibody:

Western Blot

1. Run 50 ug of cytoplasmic fraction into each lane of an 12% SDS-PAGE.
2. Block the membrane.
3. Dilute the primary anti-mNPM1 (NB110-61646) in 1% NFDM and incubate for 2 hours at room temperature.
4. Wash the membrane.
5. Dilute the secondary anti-rabbit IgG, conjugated to HRP in 1% NFDM and incubate for 1 hour at room temperature.
6. Develop the blot.





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### **Products Related to NB110-61646**

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NBL1-13748	NPM1 Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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