

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.

www.novusbio.com



technical@novusbio.com

Reviews: 2 Publications: 4

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB110-61646

Updated 10/23/2024 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB110-61646



NB110-61646

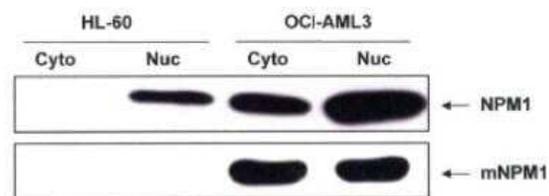
NPM1 Antibody - BSA Free

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.

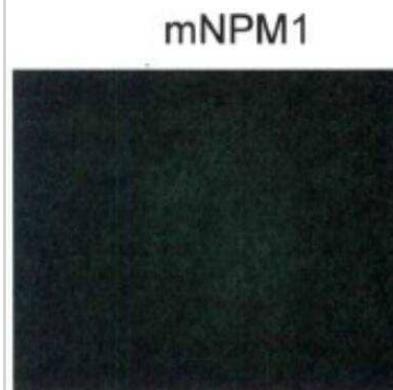


Images

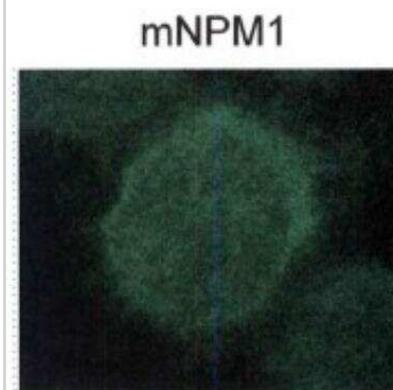
Western Blot: Nucleophosmin Antibody [NB110-61646] - Detection of mutant Nucleophosmin in OCI-AML3 lysates.



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

EI-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.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB110-61646

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

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB110-61646

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

