

# NPM1 Monoclonal Antibody (NA24)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Mouse / IgG, kappa
Class	Monoclonal
Type	Antibody
Clone	NA24
Conjugate	Unconjugated
Immunogen	GST fusion protein containing the N-terminal part of nucleophosmin fused to 14 aa of ALK protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10981922

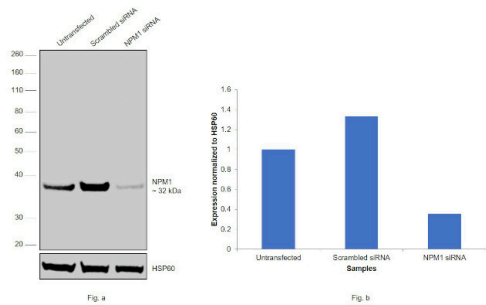
Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:1,000	2 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/mL	-
Immunocytochemistry (ICC/IF)	1:20-1:200	2 Publications
ChIP assay (ChIP)	2.5 µg/10 <sup>6</sup> cells	-
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

MA5-12508 targets Nucleophosmin in IHC (P), ICC/IF and WB applications and shows reactivity with human and mouse samples.

The MA5-12508 immunogen is gST fusion protein containing the N-terminal part of nucleophosmin fused to 14 aa of ALK protein.

Product Images For NPM1 Monoclonal Antibody (NA24)

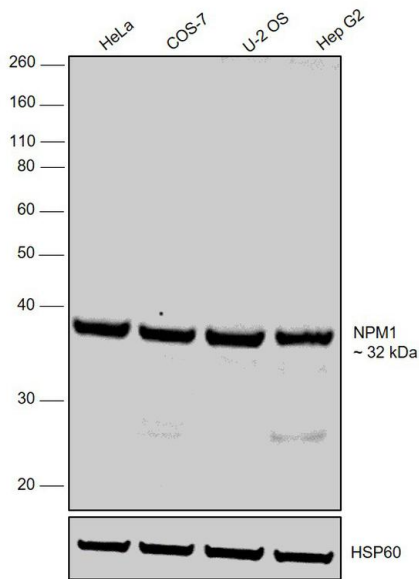


NPM1 Antibody (MA5-12508)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with NPM1 siRNA and decrease in signal intensity was observed in western blot application using Anti-NPM1 Monoclonal Antibody (NA24) (Product # PA5-12508). {KD}

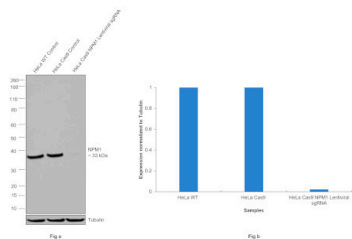
NPM1 Antibody (MA5-12508) in WB

Western blot was performed using Anti-NPM1 Monoclonal Antibody (Product # MA5-12508) and a 32 kDa band corresponding to NPM1 was observed across all the cell lines tested. Modified whole cell extracts (1% SDS) (30 µg lysate) of HeLa (Lane 1), COS-7 (Lane 2), U-2 OS (Lane 3) and Hep G2 (Lane 4) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:750 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclo™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



NPM1 Antibody (MA5-12508)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in HeLa Cas9 cell line transduced with NPM1 Lentiviral sgRNA compared to control cell line using NPM1 Monoclonal Antibody (NA24) (Product # MA5-12508). {KO}



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Western Blot (2)

<p>PloS one</p> <p><b>Oct4/Sox2 binding sites contribute to maintaining hypomethylation of the maternal igf2/h19 imprinting control region.</b></p> <p>"MA5-12508 was used in western blot to study maternal Igf2/H19 imprinting control region hypomethylation and the role of binding sites for Oct4 and Sox2"</p> <p>Authors: Zimmerman DL,Boddy CS,Schoenherr CS</p>	<p>Year 2014</p> <p>Species Human</p> <p>Dilution 1:10,000</p>
<p>The Journal of biological chemistry</p> <p><b>Functional characterization of the kinase activation loop in nucleophosmin (NPM)-anaplastic lymphoma kinase (ALK) using tandem affinity purification and liquid chromatography-mass spectrometry.</b></p> <p>"MA5-12508 was used in western blot to investigate the mechanism of KAL phosphorylation in NPM-ALK"</p> <p>Authors: Wang P,Wu F,Ma Y,Li L,Lai R,Young LC</p>	<p>Year 2010</p> <p>Species Human</p>

Immunohistochemistry (1)

<p>Human pathology</p> <p><b>Nucleophosmin, p53, and Ki-67 expression patterns on an oral squamous cell carcinoma tissue microarray.</b></p> <p>"MA5-12508 was used in immunohistochemistry to investigate the expression of nucleophosmin, p53, and Ki-67 in tissues from oral squamous cell carcinoma"</p> <p>Authors: Coutinho-Camillo CM,Lourenço SV,Nishimoto IN,Kowalski LP,Soares FA</p>	<p>Year 2010</p> <p>Species Human</p> <p>Dilution 1:1200</p>
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Immunocytochemistry (2)

<p>Cell</p> <p><b>C9orf72 Dipeptide Repeats Impair the Assembly, Dynamics, and Function of Membrane-Less Organelles.</b></p> <p>"MA5-12508 was used in immunocytochemistry to report the interactome of all dipeptide repeat proteins"</p> <p>Authors: Lee KH,Zhang P,Kim HJ,Mitrea DM,Sarkar M,Freibaum BD,Cika J,Coughlin M,Messing J,Molliex A,Maxwell BA,Kim NC,Temirov J,Moore J,Kolaitis RM,Shaw TI,Bai B,Peng J,Kriwacki RW,Taylor JP</p>	<p>Year 2016</p> <p>Species Human</p>
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Misc (1)

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