# Nucleophosmin Polyclonal Antibody | anti-NPM1 antibody

Anti-Nucleophosmin Antibody

| CATALOG # | REACTIVITY | APPLICATIONS |
|---|---|---|
| **AAA46272** | **Human, Mouse, Rat** | **Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

Nucleophosmin; Polyclonal Antibody; Anti-Nucleophosmin Antibody; B23; MGC104254; NMP1; NO38; NPM 1; NPM; NPM_HUMAN; NPM1; Nucleolar Phosphoprotein B23; Nucleolar protein NO38; Nucleophosmin (nucleolar phosphoprotein B23 numatrin); nucleophosmin nucleoplasmin family member 1; Nucleophosmin/B23.2; Nucleophosmin/nucleoplasmin family member 1; Nucleoplasmin Family Member 1; Numatrin; OTTHUMP00000161024; OTTHUMP00000161025; OTTHUMP00000223397; OTTHUMP00000223398; TRK fused gene; nucleophosmin (nucleolar phosphoprotein B23; numatrin); anti-NPM1 antibody

## PRODUCT SPECIFICATIONS

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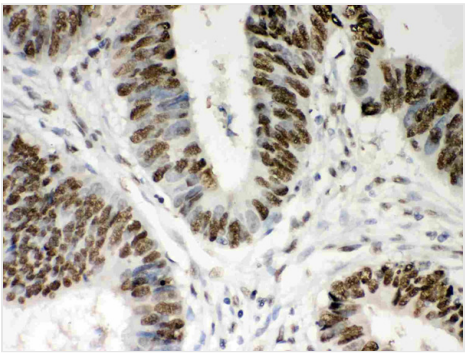
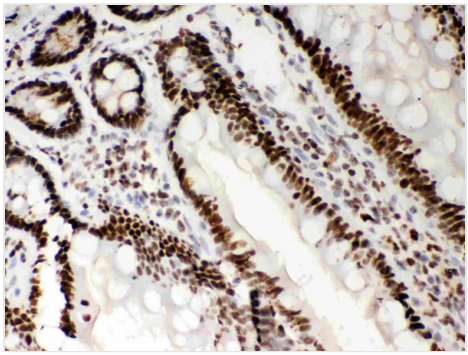
|---|---|
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Polyclonal |
| **Purity/Purification** | Immunogen Affinity Purified |
| **Form/Format** | Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. |
| **Sequence Length** | 259 |
| **Applicable Applications for anti-NPM1 antibody** | IHC (Immunohistochemistry), WB (Western Blot) |
| **Immunogen** | E Coli-derived human Nucleophosmin recombinant protein (Position: M1-L294). Human Nucleophosmin shares 95% amino acid (aa) sequence identity with both mouse and rat Nucleophosmin. |
| **Ig Type** | Rabbit IgG |
| **Reconstitution** | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |
| **Preparation and Storage** | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

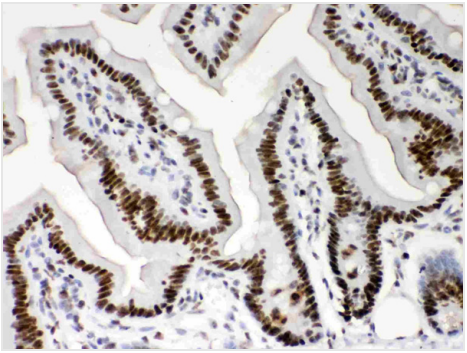
## IMAGES



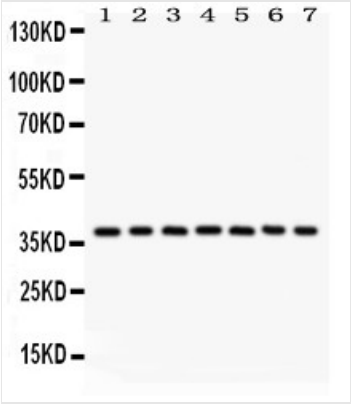
**IHC (Immunohistochemistry)**
Anti- Nucleophosmin Picoband antibody, AAA46272,IHC(P)IHC(P): Human Intestinal Cancer Tissue



**IHC (Immunohistochemisry)**
Anti- Nucleophosmin Picoband antibody, AAA46272,IHC(P)IHC(P): Rat Intestine Tissue



**IHC (Immunohiostchemistry)**
Anti- Nucleophosmin Picoband antibody, AAA46272,IHC(P)IHC(P): Mouse Intestine Tissue




**WB (Western Blot)**
Anti- Nucleophosmin Picoband antibody, AAA46272, Western blottingAll lanes: Anti Nucleophosmin (AAA46272) at 0.5ug/mlLane 1: Rat Testis Tissue Lysate at 50ugLane 2: Mouse Testis Tissue Lysate at 50ugLane 3: SKOV Whole Cell Lysate at 40ugLane 4: HEPA Whole Cell Lysate at 40ugLane 5: JURKAT Whole Cell Lysate at 40ugLane 6: HUT Whole Cell Lysate at 40ugLane 7: HELA Whole Cell Lysate at 40ugPredicted bind size: 33KDObserved bind size: 38KD

## ADDITIONAL INFORMATION

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|---|---|
| **Related Product Information for anti-NPM1 antibody** | Description: Rabbit IgG polyclonal antibody for Nucleophosmin(NPM1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.<br><br>Background: NPM1(Nucleophosmin/Nucleoplasmin family, member1), also known as NPM, nucleolar phosphoprotein B23 or numatrin, is a protein that in humans is encoded by the NPM1 gene. The NPM1 gene maps to chromosome 5q35. Chan et al. (1989) found that nucleophosmin is a nucleolar phosphoprotein that is more abundant in tumor cells than in normal resting cells. Stimulation of the growth of normal cells, e.g., mitogen activation of B lymphocytes, was accompanied by an increase in nucleophosmin protein level. They stated that nucleophosmin is likely involved in the assembly of ribosomal proteins into ribosomes. Electron microscopic study indicated that nucleophosmin is concentrated in the granular region of the nucleolus, where ribosome assembly occurs. |
| **References** | 1. Chan, W.-Y., Liu, Q.-R., Borjigin, J., Busch, H., Rennert, O. M., Tease, L. A., Chan, P.-K. Characterization of the cDNA encoding human nucleophosmin and studies of its role in normal and abnormal growth. Biochemistry 28: 1033-1039, 1989. 2. Gale, R. E., Green, C., Allen, C., Mead, A. J., Burnett, A. K., Hills, R. K., Linch, D. C. The impact of FLT3 tandem duplication mutant level, number, size, and interaction with NPM1 mutations in a large cohort of young adult patients with acute myeloid leukemia. Blood 111: 2776-2784, 2008. 3. Zhang, Q., Wang, H. Y., Liu, X., Wasik, M. A. STAT5A is epigenetically silenced by the tyrosine kinase NPM1-ALK and acts as a tumor suppressor by reciprocally inhibiting NPM1-ALK expression. Nature Med. 13: 1341-1348, 2007. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 83641870 |
| **NCBI GeneID** | 4869 |
| **NCBI Accession #** | NP_001032827.1 |
| **NCBI GenBank Nucleotide #** | NM_001037738.2 |
| **UniProt Accession #** | P06748; P08693; Q12826; Q13440; Q13441; Q14115; Q5EU94; Q5EU95; Q5EU96; A8K3N7; B5BU00; D3DQL6 |
| **Molecular Weight** | 28,400 Da |
| **NCBI Official Full Name** | nucleophosmin isoform 3 |
| **NCBI Official Synonym Full Names** | nucleophosmin (nucleolar phosphoprotein B23, numatrin) |
| **NCBI Official Symbol** | NPM1 |
| **NCBI Official Synonym Symbols** | B23; NPM |

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|---|---|
| **NCBI Protein Information** | nucleophosmin |
| **UniProt Protein Name** | Nucleophosmin |
| **UniProt Gene Name** | **NPM1** |
| **UniProt Synonym Gene Names** | NPM; NPM |
| **UniProt Entry Name** | NPM_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/nucleophosmin-antibody-immunohistochemistry-western-blot-elisa/46272