

## Mouse anti-Human Nucleophosmin Monoclonal Antibody | anti-NPM1 antibody

Nucleophosmin (Acute Myeloid Leukemia Marker)

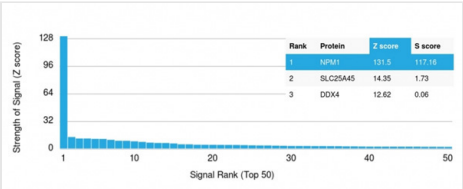
|                               |                      |                            |                                                    |
|-------------------------------|----------------------|----------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA215110</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA</b> |
|-------------------------------|----------------------|----------------------------|----------------------------------------------------|

### PRODUCT SYNONYMS

Nucleophosmin; Monoclonal Antibody; Nucleophosmin (Acute Myeloid Leukemia Marker); NO38; NPM; NPM1; Nucleolar phosphoprotein B23; Nucleolar protein NO38; Nucleophosmin (nucleolar phosphoprotein B23 numatrin); Nucleophosmin/nucleoplasmin family member 1; Numatrin; anti-NPM1 antibody

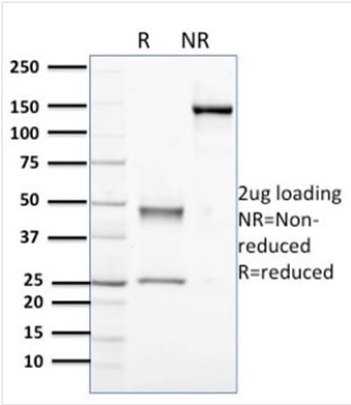
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Isotype                                        | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clone Number                                   | NPM1/3398                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Specificity                                    | Recognizes a 33kDa glycoprotein, identified as Nucleophosmin (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. |
| Purity/Purification                            | Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form/Format                                    | 200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                | 259                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Applicable Applications for anti-NPM1 antibody | IHC (Immunohistochemistry), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Positive Control                               | MCF-7, HeLa or A431 cells. Skin, Colon.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Immunogen                                      | Recombinant human NPM1 protein fragment (aa185-287) (exact sequence is proprietary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Cellular Localization                          | Nuclear and Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hu-chromosome Location                         | 5q35.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                        | Antibody with azide: store at 2 to 8 degree C.<br>Antibody without azide: store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



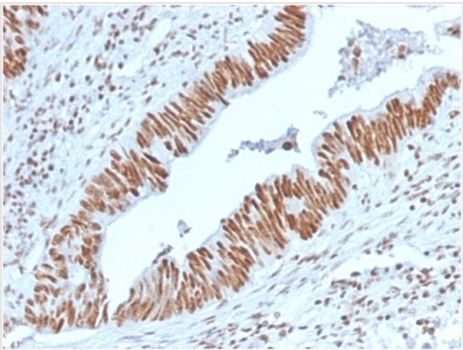
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Nucleophosmin Mouse Monoclonal Antibody (3398). 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 HuProtTM 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 HuProtTM 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 be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

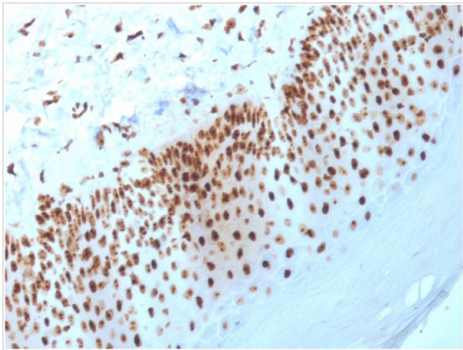


Application Data

Purified Nucleophosmin-Monospecific Mouse Monoclonal Antibody (NPM1/3398). Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded human ColonCarcinoma stained with Nucleophosmin Mouse Monoclonal Antibody (NPM1/3398).



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with Nucleophosmin Mouse Monoclonal Antibody (NPM1/3398).

ADDITIONAL INFORMATION

References

1. Chou, Y.H., et al. 1995. Cell cycle phase-dependent changes of localization and oligomerization states of nucleophosmin/B23. Biochem. Biophys. Res. Commun. 217: 313-325. 2. Nozawa, Y., et al. 1996. Expression of nucleophosmin/B23 in normal and neoplastic colorectal mucosa. J. Pathol. 178: 48-52

NCBI AND UNIPROT INFORMATION

|                                  |                         |
|----------------------------------|-------------------------|
| NCBI GI #                        | 83641870                |
| NCBI GeneID                      | 4869                    |
| NCBI Accession #                 | NP_001032827.1          |
| NCBI GenBank Nucleotide #        | NP_001032827.1          |
| UniProt Accession #              | P06748                  |
| Molecular Weight                 | 33kDa                   |
| NCBI Official Full Name          | nucleophosmin isoform 3 |
| NCBI Official Synonym Full Names | nucleophosmin 1         |
| NCBI Official Symbol             | NPM1                    |
| NCBI Official Synonym Symbols    | B23; NPM                |

|                            |               |
|----------------------------|---------------|
| NCBI Protein Information   | nucleophosmin |
| UniProt Protein Name       | Nucleophosmin |
| UniProt Gene Name          | <b>NPM1</b>   |
| 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/monoclonal/nucleophosmin-antibody-clone-npm1-3398-immunohistochemistry-elisa/215110>