

Datasheet for ABIN6940219
anti-NPM1 antibody (AA 185-287)

6 Images

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Overview

Quantity:	100 µg
Target:	NPM1
Binding Specificity:	AA 185-287
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NPM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Coating (Coat), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human NPM1 protein fragment (aa185-287) (exact sequence is proprietary)
Clone:	NPM1-3286
Isotype:	IgG1 kappa
Specificity:	Recognizes a 33 kDa 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

Product Details

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.

Purification: Purified by Protein A/G

Target Details

Target: NPM1

Alternative Name: NPM1 ([NPM1 Products](#))

Molecular Weight: 33kDa

Gene ID: 4869

UniProt: [P06748](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#), [Ribosome Assembly](#)

Application Details

Application Notes: Positive Control: K562 cells, Human colon or skin tissues (IHC).
Known Application: Immunofluorescence (1-2 µg/mL), ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

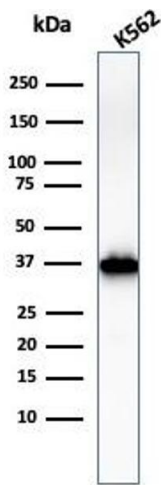
Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

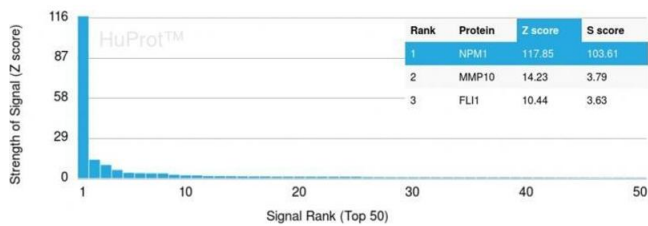
Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



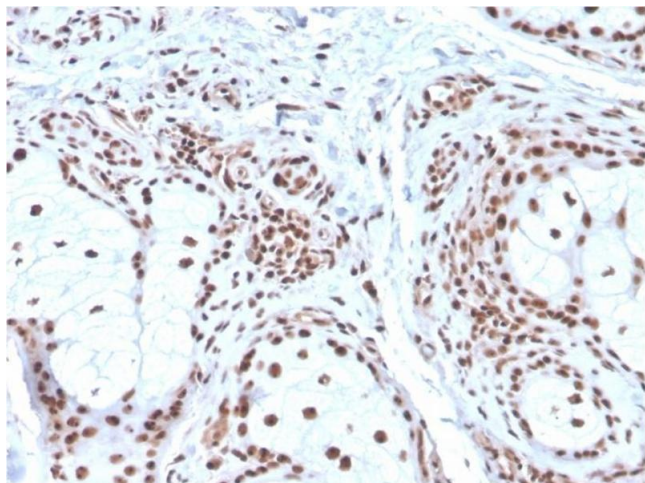
Western Blotting

Image 1. Western Blot Analysis of K562 cell lysate using Nucleophosmin Mouse Monoclonal Antibody (NPM1/3286).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Nucleophosmin-Monospecific Mouse Monoclonal Antibody (NPM1/3286) 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 HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with Nucleophosmin Mouse Monoclonal Antibody (NPM1/3286).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6940219.