Datasheet for ABIN6940216

anti-NPM1 antibody (AA 185-287)

5 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, Coating (Coat), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human NPM1 protein fragment (aa185-287) (exact sequence is proprietary)
Clone:	NPM1-1902
Isotype:	IgG2b 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: MCF-7, HeLa or A431 cells. Skin, Colon. Known Application: 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

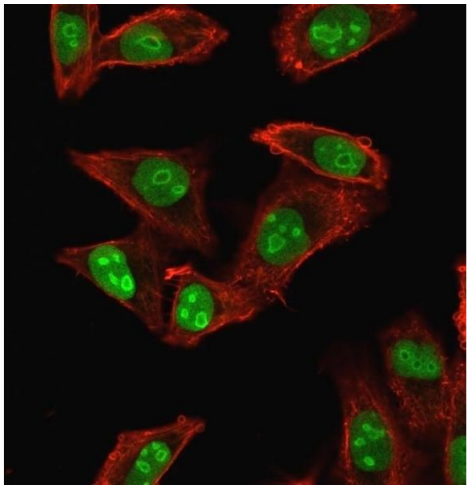
Handling

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.

Handling

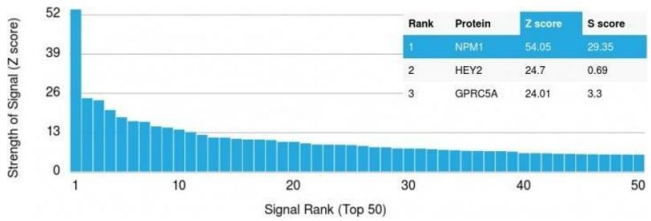
Expiry Date:	24 months

Images



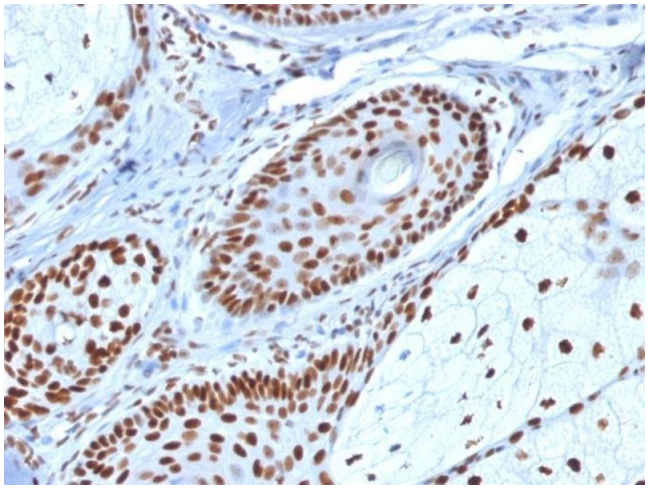
Immunofluorescence

Image 1. Immunofluorescence staining of HeLa cells using Nucleophosmin-Monospecific Mouse Monoclonal Antibody (NPM1/1902) followed by goat anti-mouse IgG-CF488 (green). Phalloidin counterstain.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Nucleophosmin-Monospecific Mouse Monoclonal Antibody (NPM1/1902) 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 (SDs) 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 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-Monospecific Mouse Monoclonal Antibody (NPM1/1902).

Please check the product details page for more images. Overall 5 images are available for ABIN6940216.