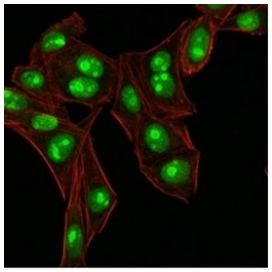
Nucleophosmin Antibody [clone NA24] (V3911)

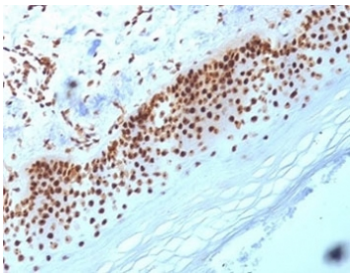
Catalog No.	Formulation	Size
V3911-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3911-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3911SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

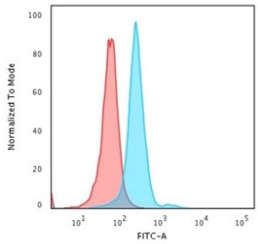
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	NA24
Purity	Protein G affinity chromatography
UniProt	P06748
Localization	Nuclear, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This Nucleophosmin antibody is available for research use only.



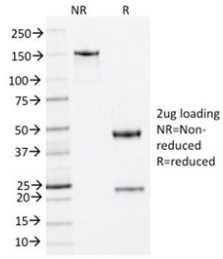
Immunofluorescent staining of human HeLa cells with Nucleophosmin antibody (clone NA24, green) and phalloidin (red).



IHC testing of FFPE human skin with Nucleophosmin antibody (clone NA24). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Flow cytometry staining of PFA-fixed human HeLa cells with Nucleophosmin antibody; Red=isotype control, Blue= Nucleophosmin antibody.



SDS-PAGE analysis of purified, BSA-free Nucleophosmin antibody (clone NA24) as confirmation of integrity and purity.

Description

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.

Application Notes

Optimal dilution of the Nucleophosmin antibody should be determined by the researcher.

Immunogen

A GST fusion protein containing the N-terminal portion of Nucleophosmin fused to a 14 amino acid portion of ALK protein was used as the immunogen for the Nucleophosmin antibody.

Storage

Store the Nucleophosmin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).