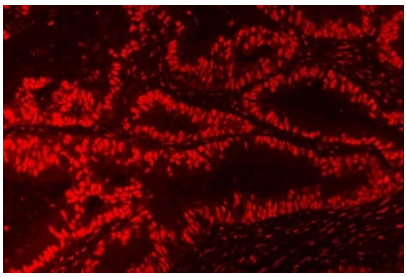
Nucleophosmin Antibody (R31754)

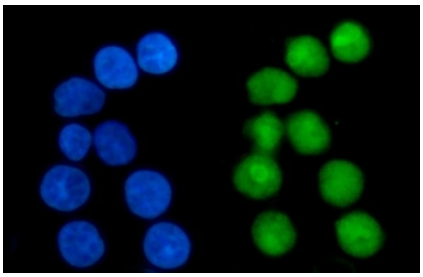
Catalog No.	Formulation	Size
R31754	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

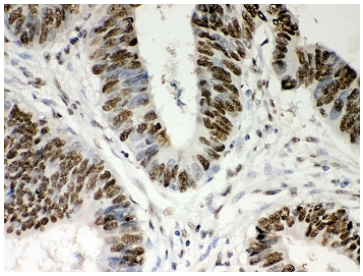
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	4869
Localization	Nucleus, Cytoplasm
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Nucleophosmin antibody is available for research use only.



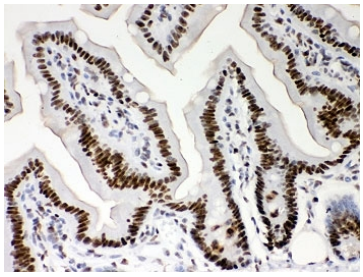
Immunofluorescent staining of FFPE human intestinal cancer tissue with Nucleophosmin antibody. HIER: steam section in pH8 EDTA for 20 min.



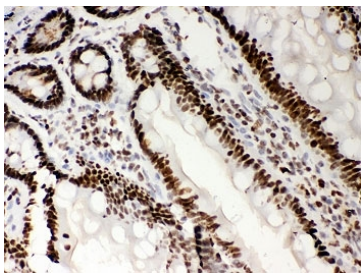
Immunofluorescent staining of FFPE human Caco-2 cells with Nucleophosmin antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



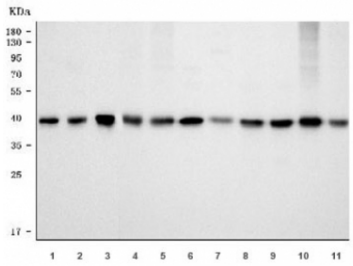
IHC staining of FFPE human intestinal cancer tissue with Nucleophosmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



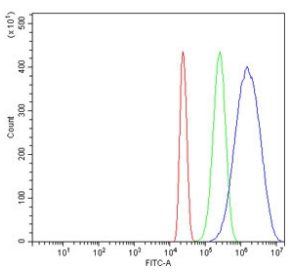
IHC staining of FFPE mouse intestinal tissue with Nucleophosmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat intestinal tissue with Nucleophosmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human Jurkat, 3) human MCF7, 4) rat C6, 5) rat NRK, 6) rat PC-12, 7) rat RH35, 8) mouse ANA-1, 9) mouse RAW264.7, 10) mouse Neuro-2a and 11) mouse HEPA1-6 cell lysate with Nucleophosmin antibody. Expected molecular weight: ~38 kDa.



Flow cytometry testing of human HL60 cells with Nucleophosmin antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Nucleophosmin antibody.

Description

NPM1 or NPM (Nucleophosmin/Nucleoplasmin family member 1), also known as Nucleolar phosphoprotein B23 or numatrin, is a protein that in humans is encoded by the NPM1 gene. Chan et al. (1989) found that NPM 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 the protein 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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Nucleophosmin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 1-294) was used as the immunogen for this Nucleophosmin antibody.

Storage

After reconstitution, the Nucleophosmin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.