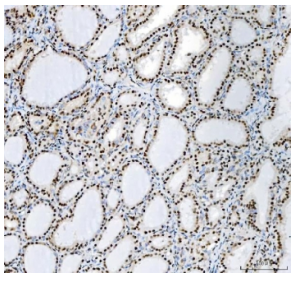
Nucleophosmin Antibody / NPM1 (R31031)

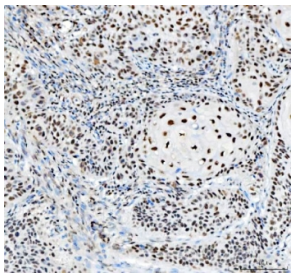
Catalog No.	Formulation	Size
R31031	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

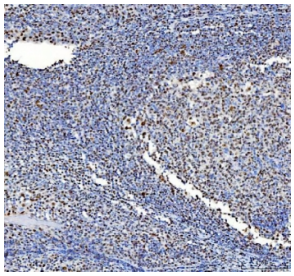
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P06748
Localization	Nucleus, cytoplasm
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Nucleophosmin antibody is available for research use only.



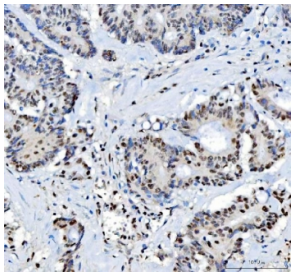
IHC staining of FFPE human thyroid cancer tissue with Nucleophosmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



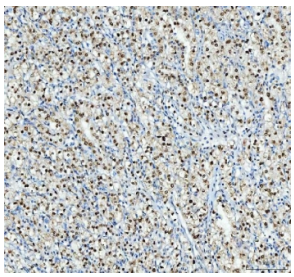
IHC staining of FFPE human laryngeal squamous cell carcinoma tissue with Nucleophosmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



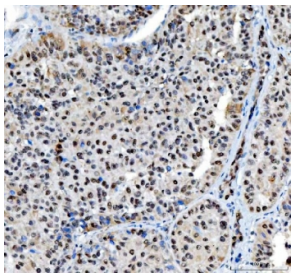
IHC staining of FFPE human tonsil tissue with Nucleophosmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



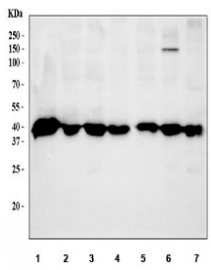
IHC staining of FFPE human colorectal adenocarcinoma tissue with Nucleophosmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



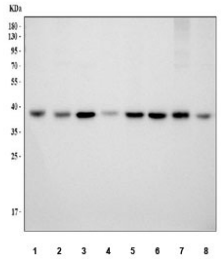
IHC staining of FFPE human glioma tissue with Nucleophosmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



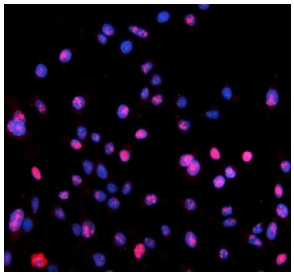
IHC staining of FFPE human liver cancer tissue with Nucleophosmin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



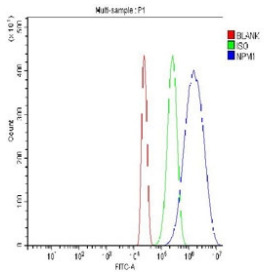
Western blot testing of 1) human HeLa, 2) human Jurkat, 3) human MCF7, 4) monkey COS-7, 5) human SK-OV-3, 6) human A549 and 7) human 22RV1 cell lysate with Nucleophosmin antibody. Expected molecular weight: ~38 kDa.



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



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



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

Description

Nucleophosmin, also known as NPM, is a protein that in humans is encoded by the NPM1 gene. The gene maps to chromosome 5q35. Nucleophosmin is likely involved in the assembly of ribosomal proteins into ribosomes. An electron microscopic study indicated that Nucleophosmin is concentrated in the granular region of the nucleolus, where ribosome assembly occurs.

Application Notes

Variations in secondary/substrate sensitivities and test protocols may require the Nucleophosmin antibody to be titrated for optimal performance.

Immunogen

An amino acid sequence from the N-terminus of human NPM1 (ELKADKDYHFKVDNDENEHQ) was used as the immunogen for this Nucleophosmin antibody (100% homologous in human, mouse and rat).

Storage

The lyophilized Nucleophosmin antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freeze/thaws.

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