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Human NPM1 antibody

Catalog Number: ATGA0565

PRODUCT INFORMATION

Catalog number

ATGA0565

Clone No.

AT23F1

Product type

Monoclonal antibody

UnitProt No.

P06748

NCBI Accession No.

NP 002511

Alternative Names

Nucleophosmin, B23, NPM

Additional Information

This product was produced from tissue culture supernatant.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human NPM1(1-294aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain



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optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

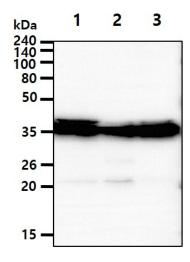
NPM1 is associated with nucleolar ribonucleoprotein structures and bind single-stranded and double-strandednucleic acids, but it binds preferentially G-Quadruplex forming nucleic acids. It is involved in the biogenesisof ribosomes and may assist small basic proteins in their transport to the nucleolus. Its regulation throughSUMOylation (by SENP3 and SENP5) is another facet of the proteins's regulation and cellular functions. It is located in the nucleolus, but it can be translocated to the nucleoplasm in case of serum starvation ortreatment with anticancer drugs. The protein is phosphorylated. Chromosomal aberrations involving NPM1 werefound in patients with non-Hodgkin lymphoma, acute promyelocytic leukemia, myelodysplastic syndrome, and acutemyelogenous leukemia. It has been found in the cytoplasm in patients with primary acute myelogenous leukemia.

General References

Maiguel D.A., et al.(2004) Mol cell Biol. 24: 3703-3711. Colombo E., et al. (2005) Mol cell Biol. 25: 8874-8886.

DATA

Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NPM1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate Lane 1.: Jurkat cell lysate

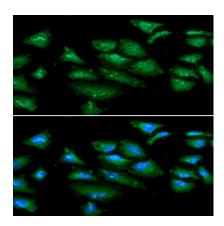
Immunocytochemistry/Immunofluorescence (ICC/IF)



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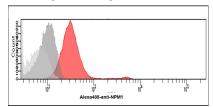
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ICC/IF analysis of NPM1 in HeLa cells. The cell was stained with ATGA0565 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of NPM1 in WiDr cells. The cell was stained with ATGA0565 at 2-5ug for 1×10^6 (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mousemonoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

