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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**

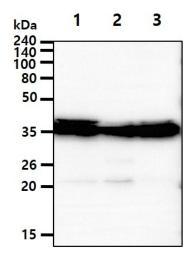
NPM1 is associated with nucleolar ribonucleoprotein structures and bind single-stranded and double-strandednucleic acids, but it binds preferentially G-Quadruplex forming nucleic acids. It is involved in the biogenesisof ribosomes and may assist small basic proteins in their transport to the nucleolus. 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

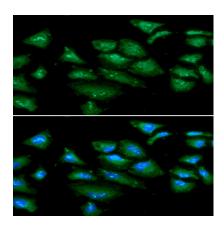
Immunocytochemistry/Immunofluorescence (ICC/IF)



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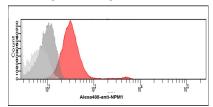
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ICC/IF analysis of NPM1 in HeLa cells. The cell was stained with ATGA0565 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

## Flow cytometry (FACS)



Flow cytometry analysis of NPM1 in WiDr cells. The cell was stained with ATGA0565 at 2-5ug for  $1\times10^6$  (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).

