PRODUCT INFORMATION

Catalog number ANP0626

Clone No. 5E3

Product type Monoclonal Antibody

UnitProt No. P06748

NCBI Accession No. NP_002511

Alternative Names

nucleophosmin (nucleolar phosphoprotein B23,numatrin),B23, NPM, MGC104254, nucleolar phosphoprotein B23, numatrin, nucleophosmin/nucleoplasmin family, member 1

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 NPM (81-294aa) purified from E. coli

lsotype

lgG2b kappa

Purification Note By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, IHC, FACS

Usage

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

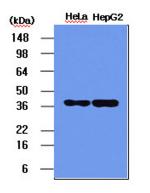
Nucleophosmin (NPM; also known as B23, NO38, or numatrin) is a nucleolar phosphoprotein that binds the tumor suppressors p53 and p19Arf and is thought to be indispensable for ribogenesis, cell proliferation, and survival after DNA damage. Nucleophosmin is upregulated in many cancer cells.

General References

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

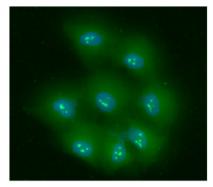
DATA

Western blot analysis (WB)



The HeLa and HepG2 cell lysates (5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NPM (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

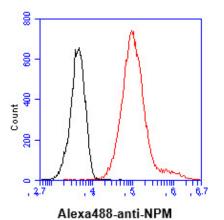
Immunocytochemistry/Immunofluorescence (ICC/IF)



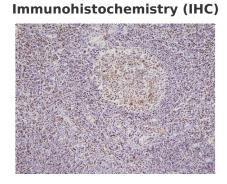
ICC/IF analysis of NPM in HeLa cells. The cell was stained with ANP0626 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of NPM in HeLa cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



This image shows paraffin-embedded human palatine tonsil tissue sample stained with anti-NPM antibody (5E3) at 1:100 dilution.