

Nucleophosmin (Phospho Thr95) Rabbit pAb

CatalogNo: YP1421

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 37kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human NPM (Thr95)

Specificity This antibody detects endogenous levels of Human NPM (phospho-Thr95)

Target Information

Gene name NPM1 NPM

Protein Name

NPM (Thr95)

Organism	Gene ID	UniProt ID
Human	4869 ;	P06748 ;
Mouse	18148 ;	Q61937 ;
Rat	25498 ;	P13084 ;

Cellular Localization

Nucleus , nucleolus . Nucleus , nucleoplasm . Cytoplasm , cytoskeleton , microtubule organizing center , centrosome . Generally nucleolar , but is translocated to the nucleoplasm in case of serum starvation or treatment with anticancer drugs. Has been found in the cytoplasm in patients with primary acute myelogenous leukemia (AML) , but not with secondary AML. Can shuttle between cytoplasm and nucleus. Co- localizes with the methylated form of RPS10 in the granular component (GC) region of the nucleolus. Colocalized with nucleolin and APEX1 in nucleoli. Isoform 1 of NEK2 is required for its localization to the centrosome during mitosis.

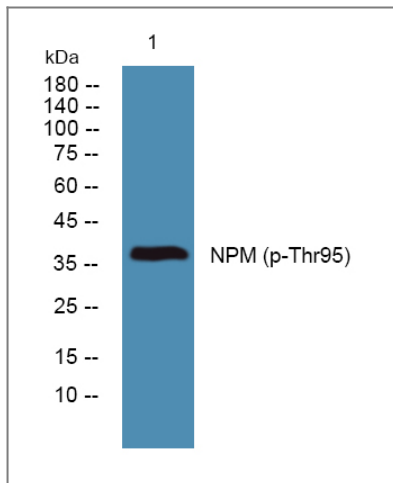
Tissue specificity

Amnion ,B-cell lymphoma ,Bone marrow ,Brain ,Cervix carcinoma ,Colon carcinoma ,Epithelium ,Kidney

Function

Disease:A chromosomal aberration involving NPM1 is a cause of myelodysplastic syndrome (MDS) . Translocation t (3;5) (q25.1;q34) with MLF1. ,Disease:A chromosomal aberration involving NPM1 is found in a form of acute promyelocytic leukemia. Translocation t (5;17) (q32;q11) with RARA. ,Disease:A chromosomal aberration involving NPM1 is found in a form of non-Hodgkin lymphoma. Translocation t (2;5) (p23;q35) with ALK. The resulting chimeric NPM1-ALK protein homodimerize and the kinase becomes constitutively activated. ,Disease:Defects in NPM1 are associated with acute myelogenous leukemia (AML) . Mutations in exon 12 affecting the C-terminus of the protein are associated with an aberrant cytoplasmic location. ,Function:Involved in diverse cellular processes such as ribosome biogenesis , centrosome duplication , protein chaperoning , histone assembly , cell proliferation , and regulation of tumor suppressors TP53/p53 and ARF. Binds ribosome presumably to drive ribosome nuclear export. Associated with nucleolar ribonucleoprotein structures and bind single-stranded nucleic acids. Acts as a chaperonin for the core histones H3 , H2B and H4. ,PTM:Acetylated at C-terminal lysine residues , thereby increasing affinity to histones. ,PTM:ADP-ribosylated. ,PTM:Phosphorylated at Ser-4 by PLK1. Phosphorylated by CDK2 at Ser-125 and Thr-199. Phosphorylation at Thr-199 may trigger initiation of centrosome duplication. Phosphorylated by CDC2 at Thr-199 , Thr-219 , Thr-234 and Thr-237 during cell mitosis. When these four sites are phosphorylated , RNA-binding activity seem to be abolished. May be phosphorylated at Ser-70 by NEK2. ,PTM:Sumoylated by ARF. ,similarity:Belongs to the nucleoplamin family. ,subcellular location:Generally nucleolar , but is translocated to the nucleoplasm in case of serum starvation or treatment with anticancer drugs. Has been found in the cytoplasm in patients with primary acute myelogenous leukemia (AML) , but not with secondary AML. Can shuttle between cytoplasm and nucleus. ,subunit:Decamer formed by two pentameric rings associated in a head-to-head fashion. Disulfide-linked dimers under certain conditions. The SWAP complex consists of NPM1 , NCL , PARP1 and SWAP70 (By similarity) . Interacts with NSUN2. Interacts with hepatitis delta virus S-HDAg. ,

Validation Data



Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4°C over night

Contact information

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Nucleophosmin (Phospho Thr95) Rabbit pAb

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