# **Product Name: Nucleophosmin Rabbit Polyclonal**

**Antibody** 

Catalog #: APRab14957



## **Summary**

**Production Name** Nucleophosmin Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

Host Rabbit
Application WB,ELISA

**Reactivity** Human, Mouse, Rat, Monkey

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw  $\bf Storage$ 

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

### **Immunogen**

Gene Name NPM1

NPM1; NPM; Nucleophosmin; NPM; Nucleolar phosphoprotein B23; Nucleolar protein Alternative Names

NO38; Numatrin

**Gene ID** 4869.0

P06748.The antiserum was produced against synthesized peptide derived from human

SwissProt ID

NPM. AA range:1-50

## **Application**

**Dilution Ratio** WB 1:500 - 1:2000. ELISA: 1:10000..

Molecular Weight 37kD

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## **Background**

This gene encodes a phosphoprotein which moves between the nucleus and the cytoplasm. The gene product is thought to be involved in several processes including regulation of the ARF/p53 pathway. A number of genes are fusion partners have been characterized, in particular the anaplastic lymphoma kinase gene on chromosome 2. Mutations in this gene are associated with acute myeloid leukemia. More than a dozen pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2009], 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 phosphorated, RNA-binding activity seem to be abolished. May be phosphoryled at Ser-70 by NEK2., PTM: Sumoylated by ARF., similarity: Belongs to the nucleoplasmin 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.,

#### Research Area

#### **Image Data**

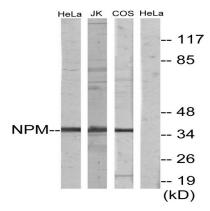
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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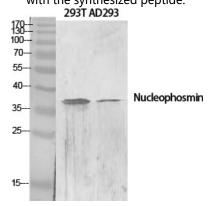
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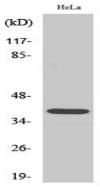




Western blot analysis of lysates from HeLa, Jurkat, and COS7 cells, using NPM Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Nucleophosmin Polyclonal Antibody diluted at 1: 2000



Western Blot analysis of COS7 cells using Nucleophosmin Polyclonal Antibody diluted at 1: 2000

#### **Note**

For research use only.