



# NPM rabbit pAb

Cat No.:ES2980

For research use only

## Overview

<b>Product Name</b>	NPM rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human NPM. AA range:201-250
<b>Specificity</b>	NPM Polyclonal Antibody detects endogenous levels of NPM protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Nucleophosmin
<b>Gene Name</b>	NPM1
<b>Cellular localization</b>	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.
<b>Purification</b>	The antibody was affinity-purified from rabbit





**Clonality**

**Concentration**

**Observed band**

**Human Gene ID**

**Human Swiss-Prot Number**

**Alternative Names**

antiserum by affinity-chromatography using epitope-specific immunogen.

Polyclonal

1 mg/ml

33kD

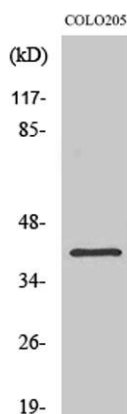
4869

P06748

NPM1; NPM; Nucleophosmin; NPM; Nucleolar phosphoprotein B23; Nucleolar protein NO38; Numatrin

**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],

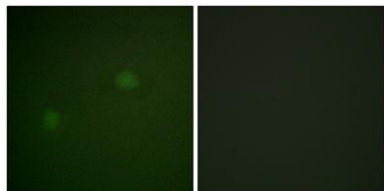


Western Blot analysis of various cells using NPM Polyclonal Antibody

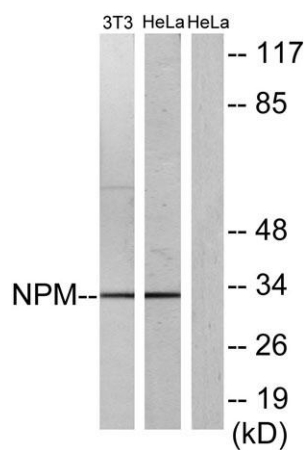
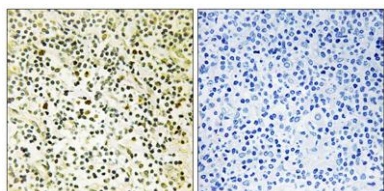




Immunofluorescence analysis of HeLa cells, using NPM Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human tonsil tissue, using NPM Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa and NIH/3T3 cells, using NPM Antibody. The lane on the right is blocked with the synthesized peptide.

