

Nucleophosmin (ABT486) IHC kit

CatalogNo: IHCM6964

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat,

Applications

- IHC

Isotype

- IgG2a, Kappa

Recommended Dilution Ratios

Storage

Storage* 2°C to 8°C/1 year

Basic Information

Clonality Monoclonal

Clone Number ABT486

Immunogen Information

Immunogen Synthesized peptide derived from human Nucleophosmin AA range: 100-200

Specificity The antibody can specifically recognize human Nucleophosmin protein.

Target Information

Gene name NPM1 NPM

Protein Name

Nucleophosmin

Organism

Human

Gene ID[4869](#);**UniProt ID**[P06748](#);**Cellular Localization**

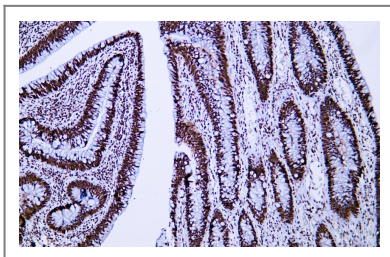
Nuclear, Cytoplasmic

Tissue specificity

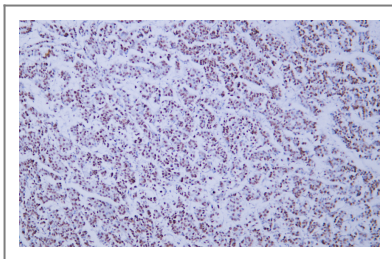
Nuclear, Cytoplasmic

Function

Disease:A chromosomal aberration involving NPM1 is a cause of myelodysplastic syndrome (MDS). Translocation t(3;5)(q25.1;q34) with MLL1.,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 nucleoplasm 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

Human colon carcinoma tissue was stained with Anti-Nucleophosmin (ABT486) Antibody



Human hepatocellular carcinoma tissue was stained with Anti-Nucleophosmin (ABT486) Antibody

| Contact information

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Please scan the QR code to access additional product information:
Nucleophosmin (ABT486) IHC kit

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