



## Nucleophosmin Mouse mAb

E2220009

**Catalog Number:**E2220009

**Amount:**100ul

**Product Name:**Nucleophosmin Mouse mAb

**Gene ID:**4869

**SwissProt ID:**P06748

**Gene Name:**NPM1

**Alternative Names:**B23; NPM

**Background:**Involved in diverse cellular processes such as ribosome biogenesis, centrosome duplication, protein chaperoning, histone assembly, cell proliferation, and regulation of tumor suppressors p53/TP53 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. Stimulates APEX1 endonuclease activity on apurinic/apyrimidinic (AP) double-stranded DNA but inhibits APEX1 endonuclease activity on AP single-stranded RNA. May exert a control of APEX1 endonuclease activity within nucleoli devoted to repair AP on rDNA and the removal of oxidized rRNA molecules. In concert with BRCA2, regulates centrosome duplication. Regulates centriole duplication: phosphorylation by PLK2 is able to trigger centriole replication. Negatively regulates the activation of EIF2AK2/PKR and suppresses apoptosis through inhibition of EIF2AK2/PKR autophosphorylation. Antagonizes the inhibitory effect of ATF5 on cell proliferation and relieves ATF5-induced G2/M blockade (PubMed:22528486). In complex with MYC enhances the transcription of MYC target genes (PubMed:25956029).

**Research Field:**Epigenetics and Nuclear Signaling

**Product Categories:**Primary antibody

**Host:**Mouse

**Reactivity:**Human

**Application:**IHC-P

**Dilution Ratio:**IHC: 1/100-1/500

**Clonality:**Monoclonal Antibody

**Clonality No.:**2H9-1A3-9A4

**Isotype:**IgG1

**Immunogen:**Synthesized peptide derived from human Nucleophosmin

**Purification:**Affinity Chromatography

**Conjugation:**Unconjugated

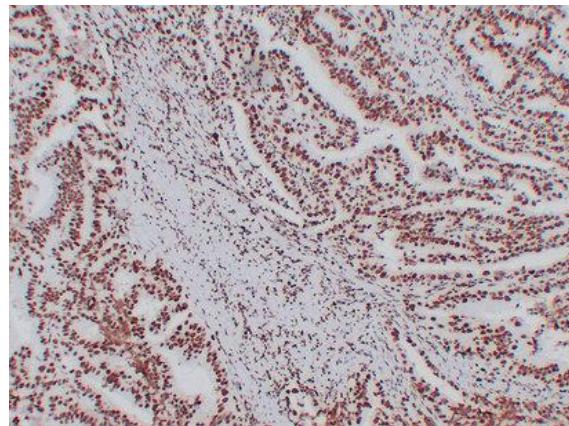
**For Research Use Only**

**Modification:** Unmodified

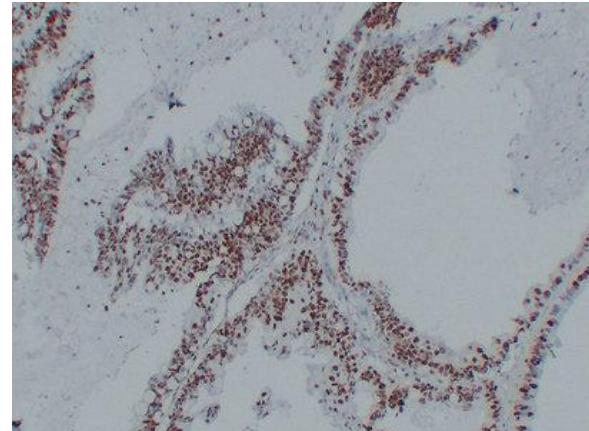
**Form:** Liquid

**Buffer System:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

**Storage:** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.



Immunohistochemistry analysis of paraffin-embedded Colorectal adenocarcinoma using Nucleophosmin antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemistry analysis of paraffin-embedded Ovarian mucinous cystadenocarcinoma using Nucleophosmin antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.