

NUCLEOPHOSMIN (2D9) MOUSE MAB

Cat.#: N261011

Product Name: Anti-Nucleophosmin (2D9) Mouse Monoclonal Antibody

Synonyms: B23; NPM

UNIPROT ID: P06748

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).

Immunogen: Purified recombinant full length of human NPM1 protein expressed in E.coli.

Applications: WB,ChIP

Recommended Dilutions: WB: 1/500-1/1000 ChIP: 1/20

Host Species: Mouse

Clonality: Mouse Monoclonal

Clone ID: 2D9-C3-E5

MW: Calculated MW: 33 kDa; Observed MW: 38 kDa

Isotype: IgG1

Purification: Affinity Purified

Species Reactivity: Human,Mouse

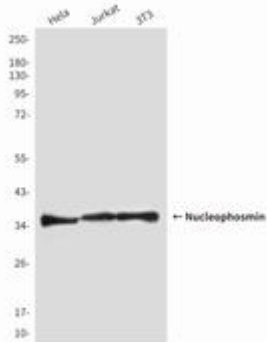
Conjugation: Unconjugated

Modification: Unmodified

Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Research Areas: Epigenetics and Nuclear Signaling

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



Western blot analysis of NPM1 in HeLa, Jurkat and 3T3 lysates using NPM1 antibody.