

NPM1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP53282

Product Information

Application	WB
Primary Accession	P06748
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	38 KDa

Additional Information

Other Names	B23;MGC104254;NMP1;NO38;NPM 1;NPM;NPM_HUMAN;NPM1;Nucleolar Phosphoprotein B23;Nucleolar protein NO38;Nucleophosmin (nucleolar phosphoprotein B23 numatrin);Nucleophosmin; Nucleophosmin/B23.2;Nucleophosmin/nucleoplasmin family member 1;Nucleoplasmin Family Member 1;Numatrin;OTTHUMP00000161024;OTTHUMP00000161025;OTTHUMP00000223397; OTTHUMP00000223398;TRK fused gene.
Dilution	WB~~1:1000
Format	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.

Protein Information

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/aprimidinic (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.

References

Chan W.-Y.,et al.Biochemistry 28:1033-1039(1989).

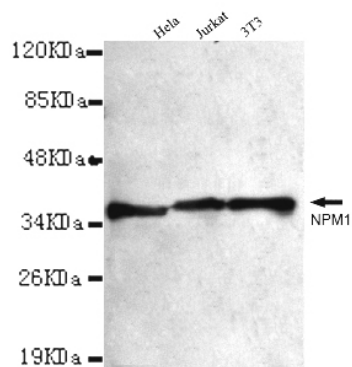
Li X.,et al.Biochem. Biophys. Res. Commun. 163:72-78(1989).

Zhang X.T.,et al.Biochem. Biophys. Res. Commun. 164:176-184(1989).

Chan P.-K.,et al.Nucleic Acids Res. 25:1225-1232(1997).

Okuwaki M.,et al.Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.

Images



Western blot detection of NPM1 in HeLa, Jurkat and 3T3 cell lysates using NPM1 mouse mAb (1:1000 diluted). Predicted band size: 33 kDa. Observed band size: 38 kDa.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.