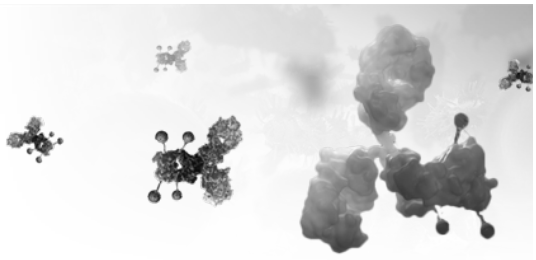

Anti-NPM1 polyclonal antibody (DPABH-10398)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	Synthetic peptide conjugated to KLH, from the region surrounding pThr199 of Human Nucleophosmin.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB, IHC-P
Format	Liquid
Size	50 µl
Buffer	pH: 7.40; Constituents: 49% Phosphate Buffer, 50% Glycerol, 0.88% Sodium chloride

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Preservative	0.09% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	NPM1 nucleophosmin (nucleolar phosphoprotein B24, numatrin) [Homo sapiens]
Official Symbol	NPM1
Synonyms	NPM1; nucleophosmin (nucleolar phosphoprotein B23, numatrin); B23; NPM; nucleophosmin; nucleolar protein NO38; nucleophosmin/nucleoplasmin family, member 1;
Entrez Gene ID	4869
Protein Refseq	NP_001032827.1
UniProt ID	P06748
Pathway	Aurora B signaling; Cell Cycle; Deposition of new CENPA-containing nucleosomes at the centromere; HIF-1-alpha transcription factor network
Function	NF-kappaB binding; NF-kappaB binding; RNA binding; Tat protein binding

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