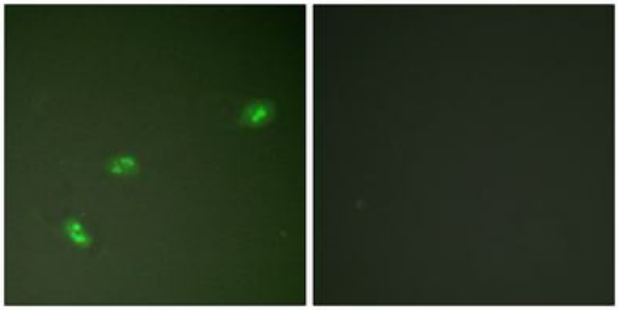
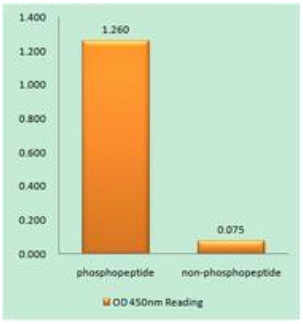
PHOSPHO-B23 (THR199) RABBIT PAB

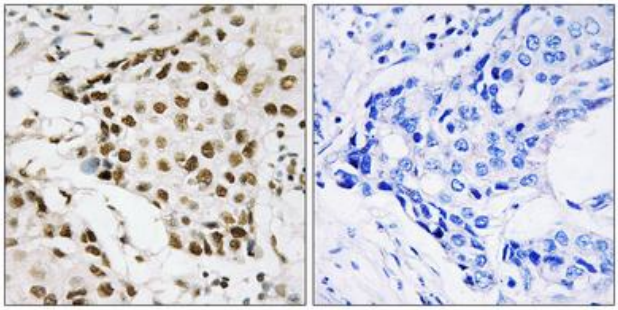
Cat.#: N225495
Product Name: Anti-Phospho-B23 (Thr199) Rabbit pAb
Synonyms: B23; NPM
UNIPROT ID: P06748
Background: Involved in diverse cellular processes such as ribosome biogenesis, centrosome duplication, protein chaperoning, histone assembly, cell proliferation, and regulation of tumor suppressors 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: The antiserum was produced against synthesized peptide derived from human NPM around the phosphorylation site of Thr199. AA range:171-220
Applications: WB,IHC-F,IHC-P,ICC/IF,ELISA
Recommended Dilutions: WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200 ELISA: 1/10000
Host Species: Rabbit
Clonality: Rabbit Polyclonal
Clone ID: -
MW: Calculated MW: 33 kDa; Observed MW: 33 kDa
Isotype: IgG
Purification: Affinity Chromatography
Species Reactivity: Human,Mouse,Rat
Conjugation: Unconjugated
Modification: Phosphorylated
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



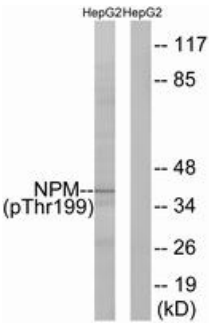
Immunofluorescence analysis of Phospho-B23 (Thr199) in HeLa treated with EGF using Phospho-B23 (Thr199) antibody. The picture on the right is blocked with the Phospho-peptide.



EnzymeLinked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phospho-peptide (Phospho-left) and NonPhospho-peptide (Phospho-right), using NPM (Phospho-Thr19antibody



Immunohistochemistry analysis of paraffin-embedded Human breast carcinoma using Phospho-B23 (Thr199) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.Sample with blocking peptide on the right.



Western blot analysis of Phospho-B23 (Thr199) in HepG2 lysates using Phospho-B23 (Thr199) antibody.The lane on the right is blocked with the synthesized peptide.