Anti-Phospho-Nucleophosmin (Ser125) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015027

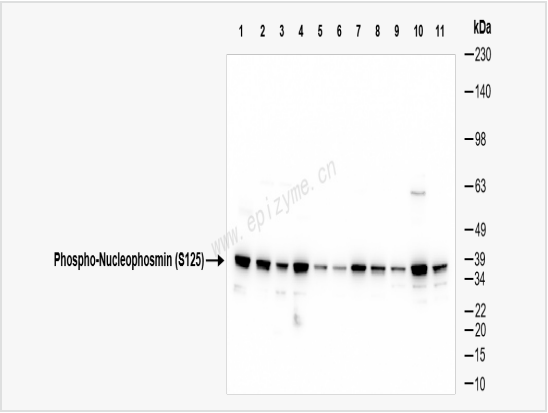
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	34A73C93
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-Nucleophosmin (S125)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-Nucleophosmin (Ser125) Rabbit mAb [34A73C93] is for research use only and not for use in diagnostic or therapeutic procedures.

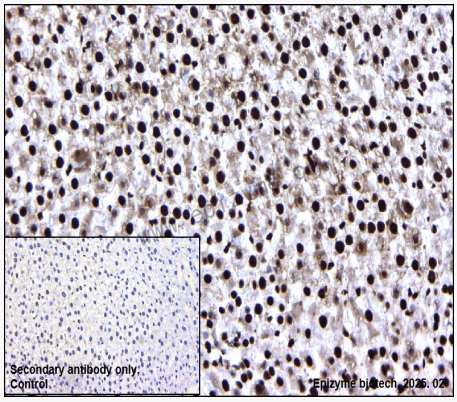
Protein Information

Synonyms	B23, MGC104254, NO38, NPM, NPM_HUMAN, NPM1, Nucleolar phosphoprotein B23, Nucleolar protein NO38, Nucleophosmin (nucleolar phosphoprotein B23 numatrin), Nucleophosmin, nucleophosmin nucleoplasmin family member 1, Nucleophosmin/nucleoplasmin family member 1, Numatrin, OTTHUMP00000161024, OTTHUMP00000161025, OTTHUMP00000223397, OTTHUMP00000223398.
Calculated MW	Calculated MW: 33 kDa; Observed MW: 35 kDa
Uniprot ID	P06748
Gene ID	4869
Background	The protein encoded by this gene is involved in several cellular processes, including centrosome duplication, protein chaperoning, and cell proliferation. The encoded phosphoprotein shuttles between the nucleolus, nucleus, and cytoplasm, chaperoning ribosomal proteins and core histones from the nucleus to the cytoplasm. This protein is also known to sequester the tumor suppressor ARF in the nucleolus, protecting it from degradation until it is needed. Mutations in this gene are associated with acute myeloid leukemia. Dozens of pseudogenes of this gene have been identified. [provided by RefSeq, Aug 2017]
Cellular Location	Nucleus, nucleolus. Nucleus, nucleoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Generally nucleolar, but is translocated to the nucleoplasm in case of serum starvation or treatment with anticancer drugs. Has been found in the cytoplasm in patients with primary acute myelogenous leukemia (AML), but not with secondary AML. Can shuttle between cytoplasm and nucleus. Co- localizes with the methylated form of RPS10 in the granular component (GC) region of

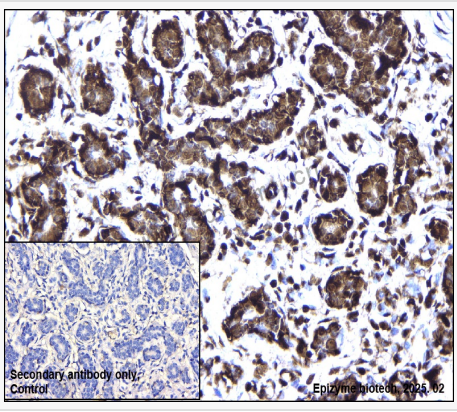
Validation Images



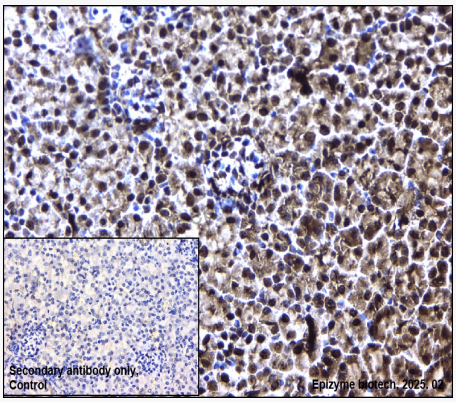
Western Blot - Anti-Phospho-Nucleophosmin (Ser125) Rabbit mAb [34A73C93]
All lanes: R015027 at 1:1,000 dilution
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3 : HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4 : SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5 : Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 6 : Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 7 : 293T (Human embryonic kidney cell) whole cell lysates
Lane 8 : SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 9 : Mouse heart whole tissue lysates
Lane 10 : Mouse brain whole tissue lysates
Lane 11 : C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 12 : Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 13 : PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 33 kDa
Observed band size: 35 kDa
Developed using the ECL technique (Cat. No. SQ201).



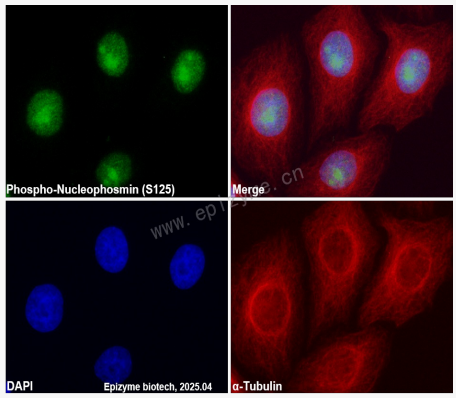
Immunohistochemistry - Anti-Phospho-Nucleophosmin (Ser125) Rabbit mAb [34A73C93]
Sample: Paraformaldehyde-fixed, paraffin embedded rat liver tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015027 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-Nucleophosmin (Ser125) Rabbit mAb [34A73C93]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015027 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-Nucleophosmin (Ser125) Rabbit mAb [34A73C93]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse kidney tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015027 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Phospho-Nucleophosmin (Ser125) Rabbit mAb [34A73C93]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015027 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).