

For Research Use Only

Phospho-NPM1 (Thr199) Recombinant monoclonal antibody

Catalog Number: 87394-1-RR



Basic Information

Catalog Number:

87394-1-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_002520

GeneID (NCBI):

4869

UNIPROT ID:

P06748

Full Name:

nucleophosmin (nucleolar phosphoprotein B23, numatrin)

Calculated MW:

33 kDa

Observed MW:

40 kDa

Purification Method:

Protein A purification

CloneNo.:

252639G7

Recommended Dilutions:

WB: 1:5000-1:50000

FC (Intra): 0.13 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : paclitaxel treated HeLa cells,

FC (Intra) : paclitaxel treated Jurkat cells,

Background Information

Nucleophosmin (NPM1,B23) is a putative ribosome assembly factor with a high affinity for peptides containing nuclear localization signals (NLSs). Phospho-NPM1 (Thr199) is a phosphorylated form of nucleophosmin (NPM1) at threonine 199, a residue that plays a critical role in cell cycle regulation and cancer development. Indeed, phosphorylation by CDK2/cyclin E on Thr199 residue during G1 phase is critical for the NPM1 dissociation from the centrosome to initiate its duplication and the pre-mRNA processing. (PMID: 26993766)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

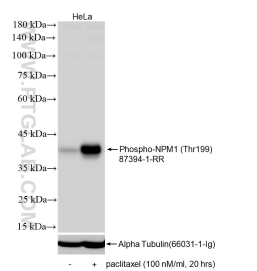
For technical support and original validation data for this product please contact:

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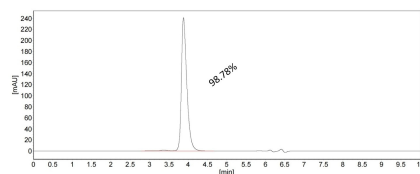
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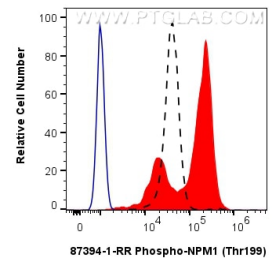
Selected Validation Data



Non-treated HeLa cells and paclitaxel treated HeLa cells were subjected to SDS PAGE followed by western blot with 87394-1-RR (Phospho-NPM1 (Thr199) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.



The purity of Human Phospho-NPM1 (Thr199) Recombinant monoclonal antibody (Cat. No. 87394-1-RR) was greater than 95% as determined by SEC-HPLC.



1×10^6 Jurkat cells untreated (dashed lines) or treated with paclitaxel which intracellularly stained with 0.13 ug Phospho-NPM1 (Thr199) Recombinant monoclonal antibody (87394-1-RR, Clone:252639G7) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).