

For Research Use Only

B23/NPM1 Recombinant antibody

Catalog Number: 82030-1-RR



Basic Information

Catalog Number: 82030-1-RR	GenBank Accession Number: BC002398	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4869	CloneNo.: 1G4
Source: Rabbit	Full Name: nucleophosmin (nucleolar phosphoprotein B23, numatrin)	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:2000-1:16000 for WB
Isotype: IgG	Calculated MW: 33 kDa	IHC 1:500-1:2000 IF 1:500-1:2000
Immunogen Catalog Number: AG0286	Observed MW: 38 kDa	

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Species Specificity:

Human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, HeLa cells, Jurkat cells, THP-1 cells

IP : Jurkat cells,

IHC : human prostate cancer tissue,

IF : HeLa cells,

Background Information

Nucleophosmin (NPM1,B23) is a putative ribosome assembly factor with a high affinity for peptides containing nuclear localization signals (NLSs). The transport of proteins across the nuclear envelope is a selective, multistep process involving several cytoplasmic factors. Proteins must be recognized as import substrates, dock at the nuclear pore complex and translocate across the nuclear envelope in an ATP-dependent fashion. Several cytosolic and nuclear proteins that are central to this process have been identified. The 38 kDa nuclear protein nucleophosmin is involved in ribosomal assembly and rRNA transport. It is an abundant protein that is highly phosphorylated by Cdc2 kinase during mitosis.

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

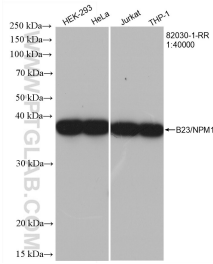
For technical support and original validation data for this product please contact:

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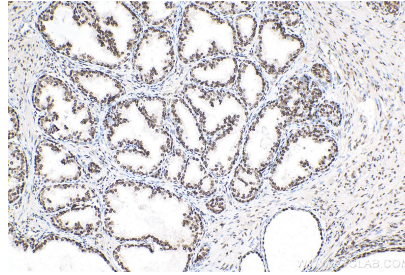
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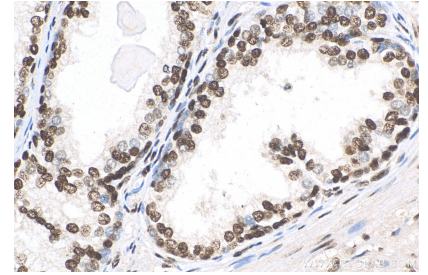
Selected Validation Data



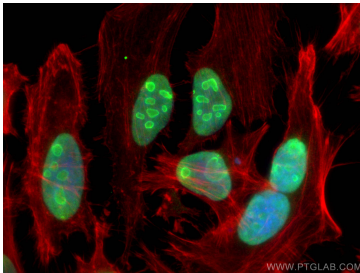
Various lysates were subjected to SDS PAGE followed by western blot with 82030-1-RR (B23 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



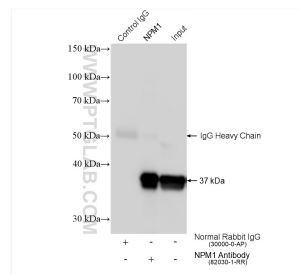
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 82030-1-RR (B23/NPM1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 82030-1-RR (B23/NPM1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using B23 antibody (82030-1-RR, Clone: 1G4) at dilution of 1:1000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



IP result of anti-B23/NPM1(IP:82030-1-RR, 4ug; Detection:82030-1-RR 1:8000) with Jurkat cells lysate 1560 ug.