

For Research Use Only

B23/NPM1 Polyclonal antibody

Catalog Number: 10306-1-AP **18 Publications**



Basic Information

Catalog Number: 10306-1-AP	GenBank Accession Number: BC002398	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4869	Recommended Dilutions: WB 1:500-1:3000 IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB
Source: Rabbit	Full Name: nucleophosmin (nucleolar phosphoprotein B23, numatrin)	IHC 1:250-1:1000 IF 1:50-1:500
Isotype: IgG	Calculated MW: 33 kDa	
Immunogen Catalog Number: AG0286	Observed MW: 35-40 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: chIP, IF, IHC, IP, WB	WB: multi-cells, C6 cells, COLO 320 cells, HEK-293 cells, HeLa cells, Jurkat cells, K-562 cells
Species Specificity: human, rat	IP: Jurkat cells,
Cited Species: human, mouse, pig	IHC: human colon cancer tissue, human breast cancer tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhen Ding	32944812	Virus Genes	IF
Masayuki Ide	31657521	EMBO Mol Med	
Hang Song	31637018	Signal Transduct Target Ther	IP

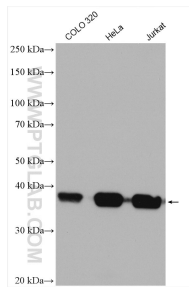
Storage

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

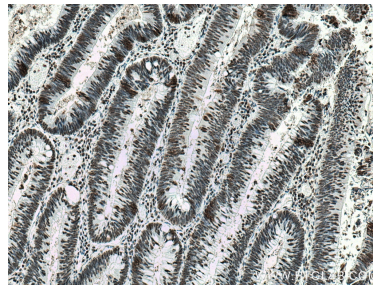
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



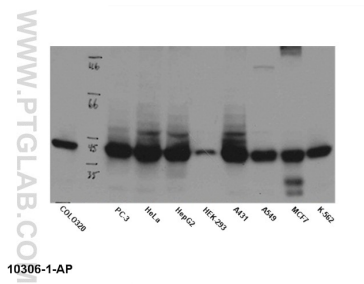
Various lysates were subjected to SDS PAGE followed by western blot with 10306-1-AP (B23/NPM1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



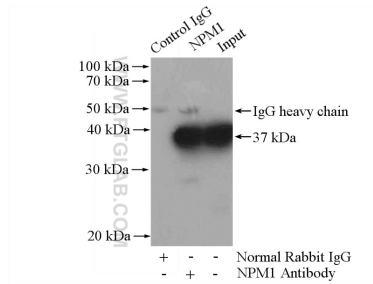
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10306-1-AP (B23/NPM1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



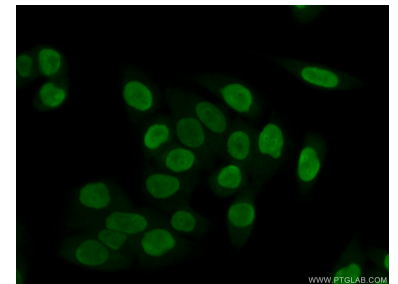
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10306-1-AP (B23/NPM1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of anti-NPM1 (10306-1-AP) in different cell lysates.



IP Result of anti-B23 (IP:10306-1-AP, 4ug; Detection:10306-1-AP 1:2000) with Jurkat cells lysate 3200ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 10306-1-AP (B23 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).