For Research Use Only

B23/NPM1 Monoclonal antibody

Catalog Number:60096-1-lg Featured Product

42 Publications

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Basic Information	Catalog Number: GenBank Accession 60096-1-lg BC002398		lumber:	Purification Method: Protein A purification	
	Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG7415	GeneID (NCBI): 4869 UNIPROT ID: P06748 Full Name: nucleophosmin (nucleolar phosphoprotein B23, numatrin) Calculated MW: 33 kDa Observed MW: 35-38 kDa		CloneNo.: 4F12A3 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:1000	
					IF/ICC 1:200-1:800
	Applications			Tested Applications: WB IHC IF/ICC FUSA	Positive Control
Cited Applications: WB, IHC, IF, IP, ChIP			WB : HSC-T6 cells, C6 cells, HeLa cells, HepG2 cells, LNCaP cells, NIH/3T3 cells, RAW 264.7 cells, ROS1728 cells, MCF-7 cells, HEK-293 cells, Jurkat cells, K-562 cells IHC : human breast cancer tissue, human colon cancer		
Species Specificity: human, mouse, rat					
Cited Species: human, mouse			tissue IF/ICC : HepG2 cells,		
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0					
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 Put	med ID Jour	nal	Application	
	Shutong Fan 304	405806 Onco	l Lett	IHC	
	Qingyang Zhang 345	551807 Mol N	leurodegener	WB,IF	
	Jie Shi 363	316314 Cell	Death Discov	IF	
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.1% sodium azide and 50%	ter shipment. % glycerol pH 7.3.			
*** 20ul sizes contain 0.1% BSA	Auquoting is unnecessary for -20 C s	storage			
For technical support and original validation da	ta for this product please contact:		This product is	exclusively available under Proteintech	

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Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 60096-1-1g (B23/NPM1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRPconjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



WB result of B23/NPM1 antibody (60096-1-lg; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-B23/NPM1 transfected HepG2 cells.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 60096-1-1g (B23 Antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 60096-1-Ig (B23 Antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 60096-1-1g (B23/NPM1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using B23/NPM1 antibody (60096-1-Ig, Clone: 4F 12A3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).