e at -20C	NPM1 Antibody		<b>Cell Signaling</b> TECHNOLOGY®		
Store at -		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#		3 Trask Lane   Danvers   Mas	ssachusetts   01923   USA		

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 38	Source: Rabbit	UniProt ID: #P06748	Entrez-Gene Id: 4869			
Product Usage Information	-	plication estern Blotting			Dilution 1:1000				
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.							
Specificity / Sensi	itivity NPI	NPM1 Antibody detects endogenous levels of total NPM1 protein.							
Source / Purificati	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the amino-terminus of human NPM1. Antibodies are purified by protein A and peptide affinity chromatography.							
Background	four tran cen fusi	Nucleophosmin (NPM; also known as B23, numatrin, or NO38) is an abundant phosphoprotein primarily found in nucleoli. It has been implicated in several distinct cellular functions, including assembly and transport of ribosomes, cytoplasmic/nuclear trafficking, regulation of DNA polymerase $\alpha$ activity, centrosome duplication, and molecular chaperoning activities (1,2). The <i>NPM</i> gene is also known for its fusion with the anaplastic lymphoma kinase (ALK) receptor tyrosine kinase. The NPM portion contributes to transformation by providing a dimerization domain, which results in activation of the fused kinase (3,4).							
Background Refe	2. T 3. N	<ol> <li>Okuda, M. et al. (2000) <i>Cell</i> 103, 127-140.</li> <li>Takemura, M. et al. (1999) <i>J. Biochem. (Tokyo)</i> 125, 904-909.</li> <li>Morris, S.W. et al. (1994) <i>Science</i> 263, 1281-1284.</li> <li>Bischof, D. et al. (1997) <i>Mol. Cell. Biol.</i> 17, 2312-2325.</li> </ol>							
Species Reactivity	<b>y</b> Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).							
Western Blot Buff		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.							
Applications Key	WB	: Western Blotting							
Cross-Reactivity I	<b>X</b> : X	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>							
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