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Applications: Re WB, FC-FP	activity: Sensitivity: H Endogenous		Source/Isotype: Rabbit IgG	UniProt ID: #P06748	Entrez-Gene Id: 4869	
Product Usage Information	Application Western Blotting Flow Cytometry (Fi	xed/Permeabilized)			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		Phospho-NPM1 (Ser4) (D19C1) XP^{\otimes} Rabbit mAb detects endogenous levels of NPM1 only when phosphorylated at Ser4.				
Species predicted to react based on 100% sequence homology:	Mouse, Rat, Monke	Mouse, Rat, Monkey, Xenopus, Bovine, Dog				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Ser4 of human NPM1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	found in nucleoli. It l transport of ribosom centrosome duplicat fusion with the anap	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 α 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 Reference	2. Takemura, M. et a 3. Morris, S.W. et al.	 Okuda, M. et al. (2000) <i>Cell</i> 103, 127-140. Takemura, M. et al. (1999) <i>J. Biochem. (Tokyo)</i> 125, 904-909. Morris, S.W. et al. (1994) <i>Science</i> 263, 1281-1284. Bischof, D. et al. (1997) <i>Mol. Cell. Biol.</i> 17, 2312-2325. 				
Species Reactivity	Species reactivity is	determined by testin	g in at least one approve	ed application (e.g., w	estern blot).	
Western Blot Buffer	IMPORTANT: For we 0.1% Tween® 20 at 4		e membrane with diluted ing, overnight.	primary antibody in 5	% w/v BSA, 1X TBS,	
Applications Key	WB: Western Blottin	WB: Western Blotting FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key	X: Xenopus Z: zebra	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 				
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Phospho-NPM1 (Ser4) (D19C1) XP® Rabbit mAb (#3520) Datasheet Without Images Cell Signaling Techn...

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