

Store at -20C
#3520**Phospho-NPM1 (Ser4) (D19C1) XP[®] Rabbit mAb**
Orders: 877-616-CELL (2355)
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, FC-FP	H	Endogenous	38	Rabbit IgG	#P06748	4869

Product Usage Information**Application**Western Blotting
Flow Cytometry (Fixed/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.

For a carrier free (BSA and azide free) version of this product see product #10735.

Specificity/SensitivityPhospho-NPM1 (Ser4) (D19C1) XP[®] Rabbit mAb detects endogenous levels of NPM1 only when phosphorylated at Ser4.**Species predicted to react based on 100% sequence homology**

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.

BackgroundNucleophosmin (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 *NPM* 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 References**

- Okuda, M. et al. (2000) *Cell* 103, 127-140.
- Takemura, M. et al. (1999) *J. Biochem. (Tokyo)* 125, 904-909.
- Morris, S.W. et al. (1994) *Science* 263, 1281-1284.
- Bischof, D. et al. (1997) *Mol. Cell. Biol.* 17, 2312-2325.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer**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****W:** Western Blotting **FC-FP:** Flow Cytometry (Fixed/Permeabilized)**Cross-Reactivity Key****H:** Human**Trademarks and Patents**

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