Numb (C44B4) Rabbit mAb



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Applications: W, IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 72, 74	Source/Isotype: Rabbit	UniProt ID: #P49757	Entrez-Gene Id: 8650
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence Flow Cytometry (Fixed	(Immunocytochem	istry)		Dilution 1:1000 1:50 1:100 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Numb (C44B4) Rabbit mAb detects endogenous levels of Numb protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe482 of human Numb protein.				
Background		Numb contains an amino-terminal phosphotyrosine binding (PTB) domain and carboxy-terminal endocytic binding motifs for α -adaptin and EH (Eps15 homology) domain-containing proteins, indicating a role in endocytosis (1,2). There are four mammalian Numb splicing isoforms that are differentially expressed and may have distinct functions (3-5). Numb acts as a negative regulator of Notch signaling by promoting ubiquitination and degradation of Notch (6). The protein is asymmetrically segregated into one daughter cell during cell division, producing two daughter cells with different responses to Notch signaling and different cell fates (7,8). The localization of Numb can also be regulated by G protein-coupled receptor (GPCR) and protein kinase C (PKC) signaling (9).				
Background References		 Berdnik, D. et al. (2002) Dev. Cell 3, 221-231. Santolini, E. et al. (2000) J. Cell Biol. 151, 1345-1352. Dho, S.E. et al. (1999) J. Biol. Chem. 274, 33097-33104. Verdi, J.M. et al. (1999) Proc. Natl. Acad. Sci. USA 96, 10472-10476. Toriya, M. et al. (2006) Dev. Neurosci. 28, 142-155. McGill, M.A. and McGlade, C.J. (2003) J. Biol. Chem. 278, 23196-23203. Verdi, J.M. et al. (1996) Curr. Biol. 6, 1134-1145. Reugels, A.M. et al. (2006) Dev. Dyn. 235, 934-948. Dho, S.E. et al. (2006) Mol. Biol. Cell 17, 4142-4155. 				
Species Reactiv	ity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human				
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