Numb Antibody	Cell Signaling TECHNOLOGY®		
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#2733	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers Massachusetts 01923 USA		
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 72, 74	Source/Isotype: Rabbit	UniProt ID: #P49757	Entrez-Gene Id: 8650		
Product Usage Information		Application Western 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/Sens	itivity	Numb Antibody detects endogenous levels of total Numb protein.						
Source / Purifica	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe482 of human Numb. Antibodies are purified by protein A and peptide affinity chromatography.						
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 Ref	ferences	 Berdnik, D. et al. (2002) <i>Dev. Cell</i> 3, 221-231. Santolini, E. et al. (2000) <i>J. Cell Biol.</i> 151, 1345-1352. Dho, S.E. et al. (1999) <i>J. Biol. Chem.</i> 274, 33097-33104. Verdi, J.M. et al. (1999) <i>Proc. Natl. Acad. Sci. USA</i> 96, 10472-10476. Toriya, M. et al. (2006) <i>Dev. Neurosci.</i> 28, 142-155. McGill, M.A. and McGlade, C.J. (2003) <i>J. Biol. Chem.</i> 278, 23196-23203. Verdi, J.M. et al. (2006) <i>Dev. Dyn.</i> 235, 934-948. Dho, S.E. et al. (2006) <i>Mol. Biol. Cell</i> 17, 4142-4155. 						
Species Reactivi	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Bu	ıffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	y	W: Western Blotting						
Cross-Reactivity	v Key	H: Human						
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