


#2733 Store at -20C

Numb Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	72, 74	Rabbit	#P49757	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 / Sensitivity	Numb Antibody detects endogenous levels of total Numb protein.	
Source / Purification	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 PKC signaling (9).	
Background References	1. Berdnik, D. et al. (2002) <i>Dev. Cell</i> 3, 221-231. 2. Santolini, E. et al. (2000) <i>J. Cell Biol.</i> 151, 1345-1352. 3. Dho, S.E. et al. (1999) <i>J. Biol. Chem.</i> 274, 33097-33104. 4. Verdi, J.M. et al. (1999) <i>Proc. Natl. Acad. Sci. USA</i> 96, 10472-10476. 5. Toriya, M. et al. (2006) <i>Dev. Neurosci.</i> 28, 142-155. 6. McGill, M.A. and McGlade, C.J. (2003) <i>J. Biol. Chem.</i> 278, 23196-23203. 7. Verdi, J.M. et al. (1996) <i>Curr. Biol.</i> 6, 1134-1145. 8. Reugels, A.M. et al. (2006) <i>Dev. Dyn.</i> 235, 934-948. 9. Dho, S.E. et al. (2006) <i>Mol. Biol. Cell</i> 17, 4142-4155.	

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	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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