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Patents

Numb (C29G11) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 72, 74	Source/Isotype: Rabbit IgG	UniProt ID: #P49757	Entrez-Gene Id: 8650	
Product Usage Information	Ap	plication		Dilution			
	We	estern Blotting		1:1000			
	Im	munoprecipitation		1:100			
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 / Sensitiv	vity Nur	Numb (C29G11) Rabbit mAb detects endogenous levels of total Numb protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala570 of human Numb protein.					
Background	bind end may ubid cell diffe	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 Refere	2. S 3. D 4. V 5. T 6. M 7. V	 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 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,

Applications Key WB: Western Blotting IP: Immunoprecipitation

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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