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Phospho-Numb (Ser276) Antibody

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 72, 74	Source: Rabbit	UniProt ID: #P49757	Entrez-Gene Id: 8650	
Product Usage Information	-	pplication estern 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.				lycerol. Store at –	
Specificity / Sensi		Phospho-Numb (Ser276) Antibody detects endogenous levels of Numb protein only when phosphor on Ser276.				ien phosphorylated	
Source / Purificati	to S	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to Ser276 of the human Numb protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	bind end may ubid cell diffe (GF Nur	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). Numb can be phosphorylated at several sites including Ser7, Ser276 and Ser295. Phosphorylation at these sites regulates asymmetric membrane localization of Numb and integrin endocytosis (10-12).					
Background Refer	2. S 3. D 4. V 5. T 6. M 7. V 8. R 9. D 10. N 11. S	erdnik, D. et al. (200 santolini, E. et al. (20 bho, S.E. et al. (1999 ferdi, J.M. et al. (1999 foriya, M. et al. (2006 McGill, M.A. and McG ferdi, J.M. et al. (199) Reugels, A.M. et al. (2006 lishimura, T. and Kai smith, C.A. et al. (2007 Virtz-Peitz, F. et al. (2007)	00) J. Cell Biol. 15) J. Biol. Chem. 27 9) Proc. Natl. Acad 5) Dev. Neurosci. 24 5) dev. Neurosci. 25 6) Curr. Biol. 2003) J 6) Curr. Biol. 6, 11 2006) Dev. Dyn. 23 5) Mol. Biol. Cell 17 buchi, K. (2007) De 07) EMBO J. 26, 46	1, 1345-1352. 4, 33097-33104. 5. <i>Sci. USA</i> 96, 1047 3, 142-155. <i>B. Biol. Chem.</i> 278, 2 34-1145. 5, 934-948. , 4142-4155. <i>ev Cell</i> 13, 15-28. 58-480.			
Species Reactivity	y Spec	cies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	estern blot).	
Western Blot Buff		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	WB	: Western Blotting					
Cross-Reactivity F	X: X		B: bovine Dg: dog	Pg: pig Sc: S. cere	s Mi: mink C: chicken Dr evisiae Ce: C. elegans H	U U	

Trademarks and Patents

Limited Uses

Phospho-Numb (Ser276) Antibody (#4140) Datasheet Without Images Cell Signaling Technology

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