WAVE-2 (D2C8) XP[®] Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y6W5	Entrez-Gene Id: 10163		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochem	istry)		Dilution 1:1000 1:50 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sens	itivity	WAVE-2 (D2C8) XP $^{ ext{B}}$ Rabbit mAb detects endogenous levels of total WAVE-2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to central residues of human WAVE-2.						
Background Wiskott-Aldrich nucleation com members have autoinhibited in autoinhibition in family proteins domains and ar be essential, as and embryonic (4). WAVE-2 (WA WAVE-3 may act nervous system adenocarcinom metastasis thro			yndrome proteins (WASPs) mediate actin dynamics by activating the Arp2/3 actin lex in response to activated Rho family GTPases. In mammals, five WASP family een described. Hematopoietic WASP and ubiquitously expressed N-WASP are unstimulated cells. Upon stimulation they are activated by cdc42, which relieves the conjunction with phosphatidyl inositol 4,5-bisphosphate. Three WAVE (Wasf, SCAR) re similar in sequence to WASP and N-WASP but lack the WASP/N-WASP autoinhibition indirectly activated by Rac (reviewed in 1). Both WASP and WAVE functions appear to snockout of either N-WASP or Scar-2 in mice results in cardiac and neuronal defects athality (2,3). Loss of WASP results in immune system defects and fewer immune cells F2) is widely distributed, while WAVE-1 and WAVE-3 are strongly expressed in brain (5). as a tumor suppressor in neuroblastoma, a childhood disease of the sympathetic (6). Increased expression of WAVE-3 is seen in breast cancer, and studies in breast cells indicate that WAVE-3 regulates breast cancer progression, invasion and gh the p38 mitogen-activated protein kinase (MAPK) pathway (7,8).					
Background References 1. Millard, T.H. et al. (2004) Biochem J. 380 2. Yan, C. et al. (2003) EMBO J. 22, 3602-3 3. Snapper, S.B. et al. (2001) Nat. Cell Biol 4. Zhang, J. et al. (1999) J. Exp. Med. 190, 5. Suetsugu, S. et al. (1999) Biochem. Bio 6. Sossey-Alaoui, K. et al. (2002) Oncoger 7. Sossey-Alaoui, K. et al. (2005) Exp. Cell 8. Sossey-Alaoui, K. et al. (2007) Am J Pat.), 1-17. 512. 3, 897-904. 329-4132. <i>ohys. Res. Commun.</i> 260, e 21, 5967-5974. Res. 308, 135-145. <i>iol</i> 170, 2112-21.	296-302.			
Species Reactivi	ty	Species reactivity is det	termined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot Bu	ıffer	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.				1 5% w/v BSA, 1X		
Applications Key	y	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity	/ Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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