## 1777

**Limited Uses** 

## WASP (D9C8) Rabbit mAb



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

Applications: F W, IP	Reactivity:	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P42768	Entrez-Gene Id 7454
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		WASP (D9C8) Rabbit mAb detects endogenous levels of total WASP protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to central residues of human WASP.				
Background		Wiskott-Aldrich syndrome proteins (WASPs) mediate actin dynamics by activating the Arp2/3 actin nucleation complex in response to activated Rho family GTPases. In mammals, five WASP family members have been described. Hematopoietic WASP and ubiquitously expressed N-WASP are autoinhibited in unstimulated cells. Upon stimulation they are activated by cdc42, which relieves the autoinhibition in conjunction with phosphatidyl inositol 4,5-bisphosphate. Three WAVE (Wasf, SCAR) family proteins are similar in sequence to WASP and N-WASP but lack the WASP/N-WASP autoinhibition domains and are indirectly activated by Rac (reviewed in 1). Both WASP and WAVE functions appear to be essential, as knockout of either N-WASP or Scar-2 in mice results in cardiac and neuronal defects and embryonic lethality (2,3). Loss of WASP results in immune system defects and fewer immune cells (4). WAVE-2 (WASF2) is widely distributed, while WAVE-1 and WAVE-3 are strongly expressed in brain (5). WAVE-3 may act as a tumor suppressor in neuroblastoma, a childhood disease of the sympathetic nervous system (6). Increased expression of WAVE-3 is seen in breast cancer, and studies in breast adenocarcinoma cells indicate that WAVE-3 regulates breast cancer progression, invasion and metastasis through the p38 mitogen-activated protein kinase (MAPK) pathway (7,8).				
Background References		<ol> <li>Millard, T.H. et al. (2004) Biochem J. 380, 1-17.</li> <li>Yan, C. et al. (2003) EMBO J. 22, 3602-3612.</li> <li>Snapper, S.B. et al. (2001) Nat. Cell Biol. 3, 897-904.</li> <li>Zhang, J. et al. (1999) J. Exp. Med. 190, 1329-4132.</li> <li>Suetsugu, S. et al. (1999) Biochem. Biophys. Res. Commun. 260, 296-302.</li> <li>Sossey-Alaoui, K. et al. (2002) Oncogene 21, 5967-5974.</li> <li>Sossey-Alaoui, K. et al. (2005) Exp. Cell Res. 308, 135-145.</li> <li>Sossey-Alaoui, K. et al. (2007) Am J Pathol 170, 2112-21.</li> </ol>				
Species Reactivity		Species reactivity is de	etermined by testin	g in at least one approve	ed 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, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
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