

DAPP1/BAM32 (D9K4O) Rabbit mAb



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Applications: W, W-S, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UN19	Entrez-Gene Id: 27071
Product Usage Information	1	Application Western Blotting Simple Western™ Immunoprecipitation		-	Dilution 1:1000 1:50 - 1:250 1:200	
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. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		DAPP1/BAM32 (D9K4O) Rabbit mAb recognizes endogenous levels of total DAPP1/BAM32 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro159 of human DAPP1/BAM32 protein.				
Background		The dual adaptor of phosphotyrosine and 3-phosphoinositides (DAPP1/BAM32) is a cytoplasmic adaptor protein that mediates the recruitment and interaction of molecules required for signal transduction downstream of the B cell receptor (BCR) (1). The DAPP1/BAM32 protein contains an amino-terminal SH2 domain and a carboxy-terminal pleckstrin homology (PH) domain that binds to PI3K-derived phosphoinositides (i.e., PIP ₃). Upon BCR activation, DAPP1/BAM32 is phosphorylated at specific tyrosine residues and translocated from the cytoplasm to the membrane. Research studies indicate that phosphorylation and translocation of DAPP1/BAM32 is strongly dependent upon PI3K signaling (2,3). The amino-terminal SH2 domain binds to PLCγ2 and other tyrosine-phosphorylated targets. As a result of these interactions, DAPP1/BAM32 can adjust the response to receptor activation by coordinating membrane-localized interactions among proteins of distinct signal transduction pathways (1,4). DAPP1/BAM32 is expressed most abundantly in B lymphocytes; high expression during dendritic cell (DC) maturation and localization to contact sites between DC and allogenic T cells suggest that the DAPP1/BAM32 adaptor may play a role in the activation of T cells through MHC class I-mediated signaling pathways (5).				
Background References		1. Marshall, A.J. et al. (2007) <i>Biochem Soc Trans</i> 35, 181-2. 2. Marshall, A.J. et al. (2000) <i>J Exp Med</i> 191, 1319-32. 3. Anderson, K.E. et al. (2000) <i>Curr Biol</i> 10, 1403-12. 4. Richards, S. et al. (2008) <i>Immunol Rev</i> 224, 183-200. 5. Ortner, D. et al. (2011) <i>J Immunol</i> 187, 3972-8.				
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 W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse

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