## RasGRP3 (C33A3) Rabbit mAb



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

Applications: W	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 78	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q8IV61	Entrez-Gene Id 25780
Product Usage Information	•	<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
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/Sensitivity		RasGRP3 (C33A3) Rabbit mAb detects endogenous levels of total RasGRP3 protein.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy teminus of human RasGRP3.				
Background		Lymphocyte activation occurs in part through activation of the Ras signaling pathway following lymphocyte receptor stimulation. The RasGRP family of guanine nucleotide exchange factors (GEFs) catalyzes the exchange of GDP for GTP on Ras family small GTPases, promoting their active GTP-bound form. Diacylglycerol (DAG) or phorbol ester binding to RasGRP family members causes their translocation to the cell membrane and stimulates their activity (1,2). While T-Cells express RasGRP1, B-cells express both RasGRP1 and RasGRP3. RasGRP3 is important in linking B-cell receptor (BCR) activation to Ras signaling (3). In response to BCR stimulation, RasGRP3 is phosphorylated at Thr133 by PKC. This phosphorylation event further activates RasGRP3 in response to DAG, which stimulates PKC activity (4,5).				
Background References		<ol> <li>Braun, D.C. et al. (2005) <i>Mol Cancer Ther</i> 4, 141-50.</li> <li>Lorenzo, P.S. et al. (2001) <i>Cancer Res</i> 61, 943-9.</li> <li>Oh-hora, M. et al. (2003) <i>J Exp Med</i> 198, 1841-51.</li> <li>Aiba, Y. et al. (2004) <i>Proc Natl Acad Sci USA</i> 101, 16612-7.</li> <li>Zheng, Y. et al. (2005) <i>Blood</i> 105, 3648-54.</li> </ol>				
Species Reacti	vity	Species reactivity is d	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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse				
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