3334 Store at -20C

## RasGRP3 (C33A3) Rabbit mAb



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Applications: WB	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IV61	Entrez-Gene Id: 25780
Product Usage Information	Ар	Application		Dilution		
	We	estern Blotting		1:1000		
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		RasGRP3 (C33A3) Rabbit mAb detects endogenous levels of total RasGRP3 protein.				
Species predicted to react based on 100% sequence homology	ó	nkey				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy teminus of human RasGRP3.				
Background	rece excl Diac cell Ras sign	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 Referer	2. Lo 3. O 4. A	<ol> <li>Braun, D.C. et al. (2005) Mol Cancer Ther 4, 141-50.</li> <li>Lorenzo, P.S. et al. (2001) Cancer Res 61, 943-9.</li> <li>Oh-hora, M. et al. (2003) J Exp Med 198, 1841-51.</li> <li>Aiba, Y. et al. (2004) Proc Natl Acad Sci USA 101, 16612-7.</li> <li>Zheng, Y. et al. (2005) Blood 105, 3648-54.</li> </ol>				

**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.

**WB:** Western Blotting

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

Trademarks and

**Applications Key** 

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