## STIM2 Antibody



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Applications: W, IF-IC	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 100	Source/Isotype: Rabbit	UniProt ID: #Q9P246	<b>Entrez-Gene Id:</b> 57620		
Product Usage Information	9	<b>Application</b> Western Blotting Immunofluorescence	(Immunocytochem	istry)		<b>Dilution</b> 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		STIM2 Antibody detects endogenous levels of total STIM2 protein.						
<b>Source / Purification</b> Polyclonal antibodies are produced by immunizing an residues near the carboxy-terminus of human STIM2. affinity chromatography.								
Background		Ca <sup>2+</sup> is a key second messenger in many intracellular signaling pathways. Ca <sup>2+</sup> signals control many cellular functions ranging from short-term responses such as contraction and secretion to longer-term regulation of cell growth and proliferation (1,2). Stromal interaction molecules (STIMs) function as Ca <sup>2+</sup> sensors that detect changes in Ca <sup>2+</sup> content in intracellular Ca <sup>2+</sup> stores (3). STIM1 is conserved, ubiquitously expressed, and functions as an endoplasmic reticulum (ER) Ca <sup>2+</sup> sensor that migrates from the ER Ca <sup>2+</sup> store to the plasma membrane where it activates calcium-release-activated calcium (CRAC) channels when the ER Ca <sup>2+</sup> store is low (4). STIM1 is a potential tumor suppressor; defects in STIM1 may cause rhabdomyosarcoma and rhabdoid tumors (5). STIM1 can either homodimerize or form heterodimers with STIM2. STIM2 possesses a high sequence identity to STIM1 and can function as an inhibitor of STIM1-mediated plasma membrane store-operated Ca <sup>2+</sup> entry (6). However, further investigation is required to elucidate the true physiological function of STIM2.						
Background Re	eferences	1. Berridge, M.J. et al. (2000) <i>Nat Rev Mol Cell Biol</i> 1, 11-21. 2. Berridge, M.J. et al. (2003) <i>Nat Rev Mol Cell Biol</i> 4, 517-29. 3. Zheng, L. et al. (2008) <i>Biochem Biophys Res Commun</i> 369, 240-6. 4. Zhang, S.L. et al. (2005) <i>Nature</i> 437, 902-5. 5. Manji, S.S. et al. (2000) <i>Biochim Biophys Acta</i> 1481, 147-55. 6. Soboloff, J. et al. (2006) <i>Curr Biol</i> 16, 1465-70.						
Species Reacti	vity	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot E	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 K	еу	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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