SPHK1 (D1H1L) Rabbit mAb



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orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only, Not for Use in Diagnostic Procedures

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 45-60	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NYA1	Entrez-Gene Id: 8877	
Product Usage Information	Application			Dilution			
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitivity		SPHK1 (D1H1L) Rabbit mAb recognizes endogenous levels of total SPHK1 protein. This antibody also cross-reacts with a protein of unknown origin at 160 kDa in some cell lines.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro374 of human SPHK1 protein.					esponding to	
Background	pho sphi sphi cha are cyto	Sphingosine kinases (SPHKs) catalyze the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Together with other sphingolipid metabolizing enzymes, SPHKs regulate the balance of the lipid mediators, ceramide, sphingosine, and S1P (1-4). Two distinct SPHK isoforms, SPHK1 and SPHK2, have been cloned and characterized (5,6). SPHK1 and SPHK2 are highly conserved and diversely expressed (7,8). The SPHKs are activated by G protein-coupled receptors, receptor tyrosine kinases, immunoglobulin receptors, cytokines, and other stimuli (9-12). The molecular mechanisms by which SPHK1 and SPHK2 are specifically regulated are complex and only partially understood.					
Background Refere	2. X 3. H 4. F 5. K 6. Li 7. Li 8. S 9. A 10. S 11. A	1. Hait, N.C. et al. (2006) <i>Biochim Biophys Acta</i> 1758, 2016-26. 2. Xia, P. et al. (2000) <i>Curr Biol</i> 10, 1527-30. 3. Hannun, Y.A. et al. (2001) <i>Biochemistry</i> 40, 4893-903. 4. Futerman, A.H. and Riezman, H. (2005) <i>Trends Cell Biol</i> 15, 312-8. 5. Kohama, T. et al. (1998) <i>J Biol Chem</i> 273, 23722-8. 6. Liu, H. et al. (2000) <i>J Biol Chem</i> 275, 19513-20. 7. Liu, H. et al. (2002) <i>Prog Nucleic Acid Res Mol Biol</i> 71, 493-511. 8. Spiegel, S. and Milstien, S. (2003) <i>Nat Rev Mol Cell Biol</i> 4, 397-407. 9. Alemany, R. et al. (2007) <i>Naunyn Schmiedebergs Arch Pharmacol</i> 374, 413-28. 0. Saba, J.D. and Hla, T. (2004) <i>Circ Res</i> 94, 724-34. 1. Anliker, B. and Chun, J. (2004) <i>J Biol Chem</i> 279, 20555-8. 2. Wattenberg, B.W. et al. (2006) <i>J Lipid Res</i> 47, 1128-39.					

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

WB: Western Blotting IP: Immunoprecipitation

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

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Limited Uses

SPHK1 (D1H1L) Rabbit mAb (#12071) Datasheet Without Images Cell Signaling Technology

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