E90139

SPHK1Polyclonal Antibody

Catalog Number: E90139
Amount: 100ul
Background: 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 metobolizing 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 diverselly 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.
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: PHK1; SPHK
Immunogen: Recombinant protein of human SPHK1
Purification: Affinity purification
Reactivity: H M R
Applications: WB IHC
Molecular Weight: 43kDa
Swiss-Prot No. : Q9NYA1
Gene ID: 8877
References: 1. Hait, N.C. et al. (2006) Biochim Biophys Acta 1758, 2016-26. 2. Xia, P. et al. (2000) Curr Biol 10, 1527-30. 3. Hannun, Y.A. et al. (2001) Biochemistry 40, 4893-903. 4. Futerman, A.H. and Riezman, H. (2005) Trends Cell Biol 15, 312-8. 5. Kohama, T. et al. (1998) J Biol Chem 273, 23722-8. 6. Liu, H. et al. (2000) J Biol Chem 275, 19513-20. 7. Liu, H. et al. (2002) Prog Nucleic Acid Res Mol Biol 71, 493-511. 8. Spiegel, S. and Milstien, S. (2003) Nat Rev Mol Cell Biol 4, 397-407. 9. Alemany, R. et al. (2007) Naunyn Schmiedebergs Arch Pharmacol 374, 413-28. 10. Saba, J.D. and Hla, T. (2004) Circ Res 94, 724-34. 11. Anliker, B. and Chun, J. (2004) J Biol Chem 279, 20555-8. 12. Wattenberg, B.W. et al. (2006) J Lipid Res 47, 1128-39.

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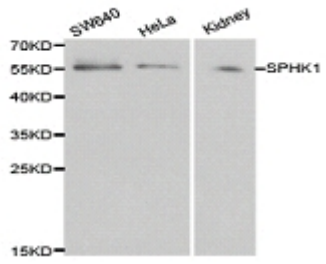
WB 1:500 - 1:2000

IHC 1:50 - 1:200



Western blot analysis of extracts of various celllines, using SPHK1 antibody.

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