

SPHK1 Polyclonal Antibody

Catalog NumberPA5-18905

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Goat / IgG	Tested Applications	
Class	Polyclonal	Immunoprecipitation (IP)	Dilution *
Type	Antibody	Western Blot (WB)	Assay-dependent
Immunogen	Synthetic peptide sequence (DVDLESEKYRRLGE) corresponding to the internal amino acids of SPHK1	2-3 µg/mL	
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Ammonium sulfate precipitation		
Storage buffer	TBS, pH 7.3, with 0.5% BSA		
Contains	0.02% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with bovine, canine, mouse and rat based on sequence homology. This antibody is tested in Peptide ELISA: antibody detection limit dilution 16,000.

Background/Target Information

SPHK1, along with SPHK2, catalyzes the phosphorylation of sphingosine producing the signaling molecule sphingosine-1-phosphate (S1P). S1P signals through G-protein coupled receptors and controls diverse cellular processes. Inhibitors of SPHKs are viewed as potential therapeutics for the treatment of cancer. SPHK1 catalyzes the phosphorylation of sphingosine to sphingosine 1 phosphate (S1P), an important signaling molecule with intra- and extracellular functions. Inside the cell S1P acts as a signaling molecule like other sphingolipid metabolites like ceramide and sphingosine. S1P has been implicated in regulating cell differentiation, calcium mobilization from intracellular stores, and apoptosis. The cell surface receptors for S1P are the EDG family of G protein-coupled receptors (S1P Receptors).

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Product Images For SPHK1 Polyclonal Antibody



SPHK1 Antibody (PA5-18905) in WB
Western blot analysis of SPHK1 using SPHK1 Polyclonal Antibody (Product # PA5-18905) (2 µg/mL) in staining of Human Peripheral Blood Mononucleocyte lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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