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Product datasheet for AP13921PU-N

SPHK1 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	**ELISA:** 1/1,000. **Western blot:** 1/100-1/500.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 1~30 amino acids from the N-terminal region of Human SPHK1.
Specificity:	This antibody detects SPHK1 at N-term.
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	sphingosine kinase 1
Database Link:	Entrez Gene 8877 Human Q9NYA1

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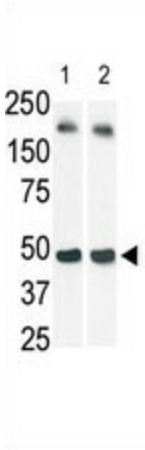
Background: Sphingosine Kinase (SphK) catalyzes the phosphorylation of the lipid sphingosine, creating the bioactive lipid sphingosine-1-phosphate (S1P). S1P subsequently signals through cell surface G protein-coupled receptors, as well as intracellularly, to modulate cell proliferation, survival, motility and differentiation. SphK is an important signaling enzyme which is activated by diverse agents, including growth factors that signal through receptor tyrosine kinases, agents activating G protein-coupled receptors, and immunoglobulin receptors. Two SphK isotypes, SphK-1 and SphK-2, have been cloned, and both isotypes are ubiquitously expressed. SphK-1 has been shown to mediate cell growth, prevention of apoptosis, and cellular transformation, and is upregulated in a variety of human tumors. In contrast, SphK-2 increases apoptosis, and may be responsible for phosphorylating and activating the immunosuppressive drug FTY720.

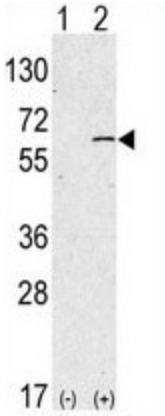
Synonyms: SPHK, SPK, SPK 1, SPK-1

Note: Molecular weight: 42517 Da

Product images:



The anti-SphK1 Pab is used in Western blot (Lane 2) to detect c-myc-tagged SphK1 in transfected 293 cell lysate (a c-myc antibody is used as control in Lane 1). Data is kindly provided by Dr. J. Van Brocklyn from the Ohio State University (Columbus, OH).



Western blot analysis of anti-hSPHK1-M1 Pab in 293 cell line lysates transiently transfected with the SPHK1 gene (2 ug/lane). hSPHK1-M1 (arrow) was detected using the purified Pab (1:60 dilution).