

## Datasheet

### SPHK1 polyclonal antibody

**Catalog Number:** PAB11412

**Regulation Status:** For research use only (RUO)

**Product Description:** Goat polyclonal antibody raised against synthetic peptide of SPHK1.

**Immunogen:** A synthetic peptide corresponding to human SPHK1.

**Sequence:** C-DVDLESEKYRRLGE

**Host:** Goat

**Theoretical MW (kDa):** 43.9, 51.1

**Reactivity:** Human

**Applications:** ELISA, IP, WB-Ce  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Form:** Liquid

**Purification:** Antigen affinity purification

**Concentration:** 0.5 mg/mL

**Recommend Usage:** ELISA (1:16000)  
Western Blot (2-3 ug/mL)  
The optimal working dilution should be determined by the end user.

**Storage Buffer:** In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)

**Storage Instruction:** Store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 8877

**Gene Symbol:** SPHK1

**Gene Alias:** SPHK

**Gene Summary:** Sphingosine-1-phosphate (SPP) is a novel lipid messenger with both intracellular and extracellular functions. Intracellularly, it regulates proliferation and survival, and extracellularly, it is a ligand for EDG1 (MIM 601974). Various stimuli increase cellular levels of SPP by activation of sphingosine kinase (SPHK), the enzyme that catalyzes the phosphorylation of sphingosine. Competitive inhibitors of SPHK block formation of SPP and selectively inhibit cellular proliferation induced by a variety of factors, including platelet-derived growth factor (e.g., MIM 173430) and serum.[supplied by OMIM]

#### References:

1. Globular adiponectin induces adhesion molecule expression through the sphingosine kinase pathway in vascular endothelial cells. Kase H, Hattori Y, Jojima T, Okayasu T, Tomizawa A, Suzuki K, Banba N, Monden T, Satoh H, Akimoto K, Kasai K. Life Sci. 2007 Aug 23;81(11):939-43. Epub 2007 Aug 17.