

## Product datasheet

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# ARG56527 anti-SPHK1 antibody

Package: 250 μl Store at: -20°C

#### **Summary**

Host

Product Description Rabbit Polyclonal antibody recognizes SPHK1

Rabbit

Tested Reactivity Hu

Predict Reactivity Ms, Pig, Rb, frg

Tested Application ICC/IF, WB

Clonality Polyclonal

Isotype IgG

Target Name SPHK1
Species Human

Immunogen Synthetic peptide around an internal region of Human SPHK1.

Conjugation Un-conjugated

Alternate Names SK 1; SPK 1; EC 2.7.1.91; SPHK; Sphingosine kinase 1

### **Application Instructions**

Application table	Application	Dilution
	ICC/IF	1:80
	WB	1:200
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

#### **Properties**

Form Liquid

**Purification** Affinity purification with immunogen.

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Database links <u>GeneID: 8877 Human</u>

Swiss-port # Q9NYA1 Human

Gene Symbol SPHK1

Gene Full Name sphingosine kinase 1

Background The protein encoded by this gene catalyzes the phosphorylation of sphingosine to form

sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Intracellularly, S1P regulates proliferation and survival, and extracellularly, it is a ligand for cell surface G protein-coupled receptors. This protein, and its product S1P, play a key role in TNF-alpha signaling and the NF-kappa-B activation pathway important in inflammatory, antiapoptotic, and immune processes. Alternatively spliced transcript variants encoding different isoforms have been found for this

gene. [provided by RefSeq, Sep 2011]

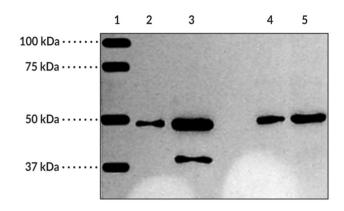
Function Catalyzes the phosphorylation of sphingosine to form sphingosine 1-phosphate (SPP), a lipid mediator

with both intra- and extracellular functions. Also acts on D-erythro-sphingosine and to a lesser extent sphinganine, but not other lipids, such as D,L-threo-dihydrosphingosine, N,N-dimethylsphingosine,

diacylglycerol, ceramide, or phosphatidylinositol. [UniProt]

Calculated Mw 43 kDa

#### **Images**



#### ARG56527 anti-SPHK1 antibody WB image

Western blot: 1) Precision Plus Protein Standard, 2) 10  $\mu$ g of SPHK 1 transfected cell lysates, 3) 20  $\mu$ g of SPHK 1 transfected cell lysates, 4) 25  $\mu$ g of Mouse heart homogenate, and 5) 50  $\mu$ g of Mouse heart homogenate stained with ARG56527 anti-SPHK1 antibody.