

ARG55846
anti-SPHK1 antibodyPackage: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SPHK1
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SPHK1
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 59-89 (N-terminus) 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
	IHC-P	1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human kidney	

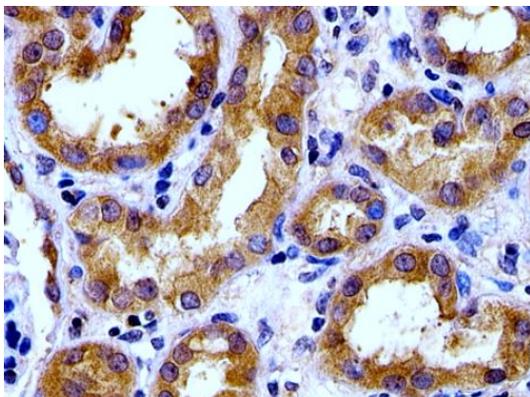
Properties

Form	Liquid
Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
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 or below. 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	GeneID: 20698 Mouse GeneID: 8877 Human Swiss-port # Q8CI15 Mouse 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
Cellular Localization	Cytoplasm. Nucleus. Cell membrane. Note=Translocated from the cytoplasm to the plasma membrane in a CIB1-dependent manner

Images



ARG55846 anti-SPHK1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney tissue stained with ARG55846 anti-SPHK1 antibody at 1:100 dilution.



Human kidney

ARG55846 anti-SPHK1 antibody WB image

Western blot: 35 µg of Human kidney lysate stained with ARG55846 anti-SPHK1 antibody at 1:1000 dilution.