Datasheet for ABIN748613

anti-SPHK2 antibody (AA 101-200)

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Overview

Quantity:	100 µL
Target:	SPHK2
Binding Specificity:	AA 101-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SPHK2 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SPHK2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	SPHK2
Alternative Name:	SPHK2 (SPHK2 Products)

Target Details

Background:	Synonyms: SK 2, SK-2, SPK 2, SPK-2, Sphingosine kinase 2, SPHK2 Background: 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-dihydrosphingosine, D-erythro-sphingosine and L-threo-dihydrosphingosine. Binds phosphoinositides.
Gene ID:	56848
UniProt:	Q9NRA0
Pathways:	VEGF Signaling

Application Details

Application Notes:	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Tran, Jersmann, Truong, Hamon, Roscioli, Ween, Pitman, Pitson, Hodge, Reynolds, Hodge: "

Publications

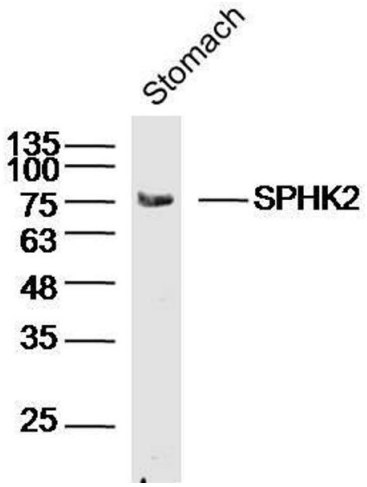
Disrupted epithelial/macrophage crosstalk via Spinster homologue 2-mediated S1P signaling may drive defective macrophage phagocytic function in COPD." in: **PLoS ONE**, Vol. 12, Issue 11, pp. e0179577, (2017) (PubMed).

Zhang, Li, Yuan, Zhao: "Hypoxic preconditioning protects cardiomyocytes against hypoxia/reoxygenation-induced cell apoptosis via sphingosine kinase 2 and FAK/AKT pathway." in: **Experimental and molecular pathology**, Vol. 100, Issue 1, pp. 51-8, (2016) (PubMed).

Tani, Tabuchi, Hara: "Hair Cell Loss Induced by Sphingosine and a Sphingosine Kinase Inhibitor in the Rat Cochlea." in: **Neurotoxicity research**, Vol. 29, Issue 1, pp. 35-46, (2016) (PubMed).

Tran, Barnawi, Ween, Hamon, Roscioli, Hodge, Reynolds, Pitson, Davies, Haberberger, Hodge: " Cigarette smoke inhibits efferocytosis via deregulation of sphingosine kinase signaling: reversal with exogenous S1P and the S1P analogue FTY720." in: **Journal of leukocyte biology**, Vol. 100, Issue 1, pp. 195-202, (2016) (PubMed).

Images



Western Blotting

Image 1. Mouse stomach lysates probed with SPHK2 Polyclonal Antibody, unconjugated at 1:300 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.