

Datasheet for ABIN391349
anti-SPHK2 antibody (C-Term)



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Overview

Quantity:	200 µL
Target:	SPHK2
Binding Specificity:	AA 590-620, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SPHK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This SPHK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 590-620 amino acids from the C-terminal region of human SPHK2.
Clone:	RB03625
Isotype:	IgG
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	SPHK2
Alternative Name:	SPHK2 (SPHK2 Products)
Background:	Sphingosine Kinase (SphK) catalyzes the phosphorylation of the lipid sphingosine, creating the

Target Details

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.

Molecular Weight:	69217
NCBI Accession:	NP_001191087 , NP_001191088 , NP_001191089 , NP_064511
UniProt:	Q9NRA0
Pathways:	VEGF Signaling

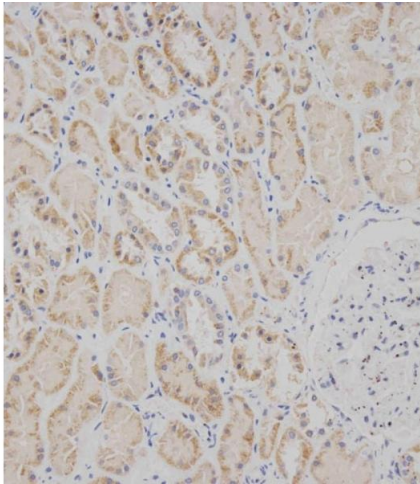
Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P-Leica: 1:250. IHC-P-Leica: 1:250
Restrictions:	For Research Use only

Handling

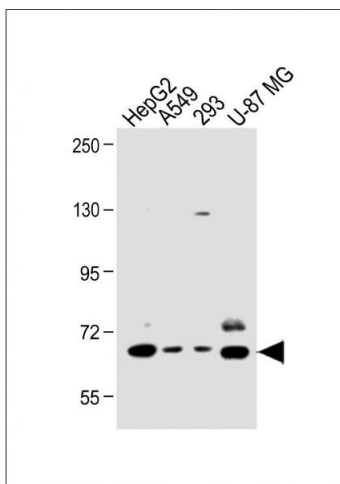
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze-thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.
Expiry Date:	6 months

Product cited in: Ewing, Chu, Elisma, Li, Taylor, Climie, McBroom-Cerajewski, Robinson, OConnor, Li, Taylor, Dharsee, Ho, Heilbut, Moore, Zhang, Ornatsky, Bukhman, Ethier, Sheng, Vasilescu, Abu-Farha, Lambert, Duewel et al.: "Large-scale mapping of human protein-protein interactions by mass spectrometry. ..." in: **Molecular systems biology**, Vol. 3, pp. 89, (2007) ([PubMed](#)).



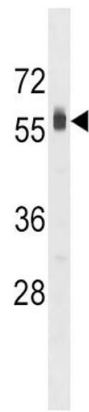
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of B on paraffin-embedded Human kidney tissue was performed on the Leica®BOND RXm. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH 9.0). Samples were incubated with primary Antibody (1:250) for 15 min at room temperature. Leica Bond Polymer Refine Detection was used as the secondary antibody.



Western Blotting

Image 2. All lanes : Anti-hSPHK2- at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: A549 whole cell lysate Lane 3: 293 whole cell lysate Lane 4: U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 69 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.



Western Blotting

Image 3. SPHK2 Antibody (ABIN391349 and ABIN2841370) western blot analysis in HepG2 cell line lysates (35 μ g/lane). This demonstrates the SPHK2 antibody detected the SPHK2 protein (arrow).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN391349.