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### anti-SPHK1 antibody (AA 286-315)

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**Publications** 



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Overview	
Quantity:	200 μL
Target:	SPHK1
Binding Specificity:	AA 286-315
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SPHK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Immunogen:	This SPHK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic
	peptide between 286-315 amino acids from the Central region of human SPHK1.
Clone:	RB03621
Isotype:	lg Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Target Details	
Target:	SPHK1
Alternative Name:	SPHK1 (SPHK1 Products)
Background:	Sphingosine Kinase (SphK) catalyzes the phosphorylation of the lipid sphingosine, creating the

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.

Gene ID:	8877
NCBI Accession:	NP_001136073, NP_001136074, NP_068807, NP_892010
UniProt:	Q9NYA1
Pathways:	VEGF Signaling

#### **Application Details**

Application Notes:	WB: 1:2000. WB: 1:1000. WB: 1:2000. IHC-P: 1:25. IHC-P: 1:25
Restrictions:	For Research Use only

#### Handling

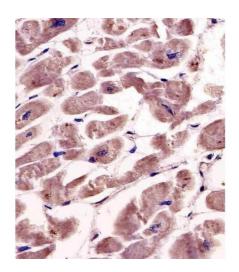
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze-thaw cycles.
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 smal aliquots.
Expiry Date:	6 months

Product cited in:

Bolomini-Vittori, Montresor, Giagulli, Staunton, Rossi, Martinello, Constantin, Laudanna: "Regulation of conformer-specific activation of the integrin LFA-1 by a chemokine-triggered Rho signaling module." in: **Nature immunology**, Vol. 10, Issue 2, pp. 185-94, (2009) (PubMed).

There are more publications referencing this product on: Product page

#### **Images**



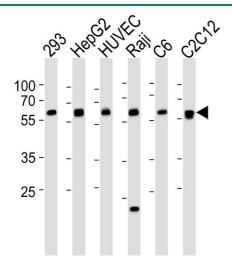
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#### **Immunohistochemistry (Paraffin-embedded Sections)**

Image 1. (ABIN391346 and ABIN2841367) staining SPHK1 in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3 % BSA for 0. 5 hour at room temperature, antigen retrieval was by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hours at 37 °C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

#### **Western Blotting**

**Image 2.** Anti-SPHK1 Antibody (Center) at 1:2000 dilution + human liver lysate Lysates/proteins at 20 μg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



#### **Western Blotting**

**Image 3.** Western blot analysis of lysates from 293, HepG2, HUVEC, Raji, rat C6, mouse C2C12 cell line (from left to right), using SPHK1 Antibody (ABIN391346 and ABIN2841367). (ABIN391346 and ABIN2841367) was diluted at 1:1000 at each lane. A goat anti-rabbit lgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35  $\mu$ g per lane.

Please check the product details page for more images. Overall 5 images are available for ABIN391346.