

Datasheet for ABIN391345  
**anti-SPHK1 antibody (N-Term)**[Go to Product page](#)

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## Overview

Quantity:	400 µL
Target:	SPHK1
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SPHK1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	This SPHK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SPHK1.
Clone:	RB3619
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

## Target Details

Target:	SPHK1
Alternative Name:	SPHK1 ( <a href="#">SPHK1 Products</a> )

## Target Details

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:	<a href="#">NP_001136073</a> , <a href="#">NP_001136074</a> , <a href="#">NP_068807</a> , <a href="#">NP_892010</a>
UniProt:	<a href="#">Q9NYA1</a>
Pathways:	<a href="#">VEGF Signaling</a>

## Application Details

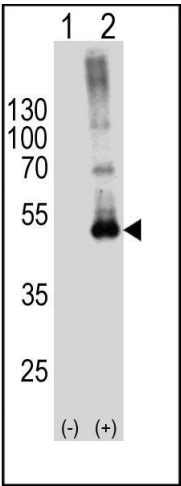
Application Notes:	WB: 1:1000. WB: 1:1000. WB: 1:1000. WB: 1:500
Restrictions:	For Research Use only

## 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.
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 to prevent freeze-thaw cycles.
Expiry Date:	6 months

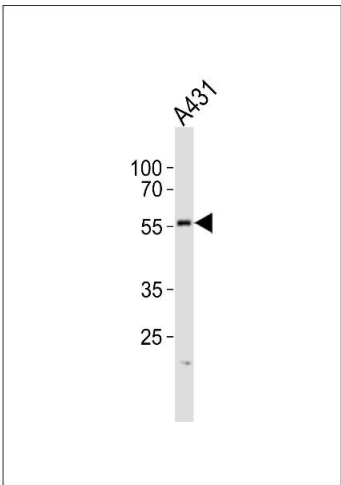
Product cited in: Ewing, Chu, Elisma, Li, Taylor, Climie, McBroom-Cerajewski, Robinson, OConnor, Li, Taylor, Dharsee, Ho, Heilbut, Moore, Zhang, Ornatsky, Bukhman, Ethier, Sheng, Vasilescu, Abu-Farha, Lambert, Duewel et al.: "Large-scale mapping of human protein-protein interactions by mass spectrometry.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

Images



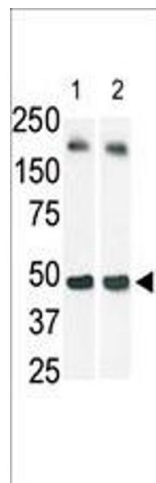
Western Blotting

**Image 1.** Western blot analysis of SPHK1-M1 Antibody (arrow) using rabbit polyclonal SPHK1-M1 Antibody (ABIN391345 and ABIN2841366). 293T cell lysates either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SPHK1-M1 gene. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody



Western Blotting

**Image 2.** Western blot analysis of lysate from A431 cell line, using SPHK1 Antibody (M1) (ABIN391345 and ABIN2841366). (ABIN391345 and ABIN2841366) was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20 µg.



### Western Blotting

**Image 3.** The anti-SphK1 Pab (ABIN391345 and ABIN2841366) is used in Western blot (Lane 2) to detect c-myc-tagged SphK1 in transfected 293 cell lysate (a c-myc antibody is used as control in Lane 1). Data is kindly provided by Dr. J. Van Brocklyn from the Ohio State University (Columbus, OH).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN391345.