

Datasheet for ABIN391348

**anti-SPHK2 antibody (N-Term)****2** Images**8** Publications[Go to Product page](#)

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 400 µL   |
| Target:              | SPHK2  |
| Binding Specificity: | AA 1-30, N-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 1-30 amino acids from the N-terminal region of human SPHK2. |
| Clone:        | RB03623   |
| Isotype:      | Ig Fraction   |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | SPHK2                                    |
| Alternative Name: | SPHK2 ( <a href="#">SPHK2 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. |
| Molecular Weight: | 69217  |
| NCBI Accession:   | <a href="#">NP_001191087</a> , <a href="#">NP_001191088</a> , <a href="#">NP_001191089</a> , <a href="#">NP_064511</a>   |
| UniProt:          | <a href="#">Q9NRA0</a>   |
| Pathways:         | <a href="#">VEGF Signaling</a>   |

## Application Details

|                    |                             |
|--------------------|-----------------------------|
| Application Notes: | WB: 1:1000. IHC-P: 1:50~100 |
| 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.                             |
| Expiry Date:       | 6 months   |

## Publications

|                   |   |
|-------------------|---|
| Product cited in: | Song, Zhang, Chen, Xia, Qin, Waeber, Sheng: "Sphingosine kinase 2 activates autophagy and |
|-------------------|---|

protects neurons against ischemic injury through interaction with Bcl-2 via its putative BH3 domain." in: **Cell death & disease**, Vol. 8, Issue 7, pp. e2912, (2018) ([PubMed](#)).

Gairhe, Joshi, Bastola, McLendon, Oka, Fagan, McMurtry: "Sphingosine-1-phosphate is involved in the occlusive arteriopathy of pulmonary arterial hypertension." in: **Pulmonary circulation**, Vol. 6, Issue 3, pp. 369-80, (2016) ([PubMed](#)).

Sun, Zhang, Wang, Wang, Ma, Lei, Zhou, Sun, Lu, Liu, Han: "Down-regulation of Sphk2 suppresses bladder cancer progression." in: **Tumour biology**, (2015) ([PubMed](#)).

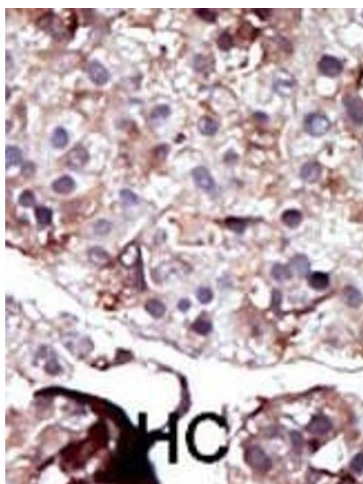
Sheng, Zhang, Felice, Qin, Qin, Smith, Sapp, Difiglia, Waeber: "Preconditioning stimuli induce autophagy via sphingosine kinase 2 in mouse cortical neurons." in: **The Journal of biological chemistry**, Vol. 289, Issue 30, pp. 20845-57, (2014) ([PubMed](#)).

Candela, Geraci, Turturici, Taverna, Albanese, Sconzo: "Membrane vesicles containing matrix metalloproteinase-9 and fibroblast growth factor-2 are released into the extracellular space from mouse mesoangioblast stem cells." in: **Journal of cellular physiology**, Vol. 224, Issue 1, pp. 144-51, (2010) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

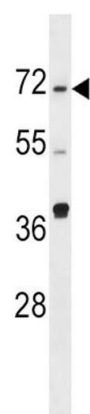
## Images

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### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

**Image 2.** SPHK2 Antibody (P15) (ABIN391348 and ABIN2841369) western blot analysis in Ramos cell line lysates (35 µg/lane). This demonstrates the SPHK2 antibody detected the SPHK2 protein (arrow).