# antibodies -online.com







## anti-SPHK1 antibody (AA 1-30)



### **Images**



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| Overview             |                                      |
|----------------------|--------------------------------------|
| Quantity:            | 0.4 mL                               |
| Target:              | SPHK1                                |
| Binding Specificity: | AA 1-30                              |
| Reactivity:          | Human                                |
| Host:                | Rabbit                               |
| Clonality:           | Polyclonal                           |
| Conjugate:           | This SPHK1 antibody is un-conjugated |
| Application:         | Western Blotting (WB), ELISA         |
| Product Details      |                                      |

| lmmunogen:    | A portion of amino acids 1-30 from the human protein was used as the immunogen for this |  |
|---------------|---|--|
|               | SPHK1 antibody.   |  |
| Isotype:      | lg Fraction   |  |
| Purification: | Purified  |  |

#### **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.

UniProt:

Q9NYA1

Pathways:

**VEGF Signaling** 

#### **Application Details**

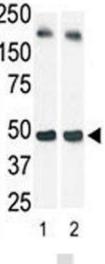
| Application Notes: | Titration of the SPHK1 antibody may be required due to differences in protocols and |
|--------------------|---|
|                    | secondary/substrate sensitivity.\. Western blot: 1:500                              |

Restrictions:

For Research Use only

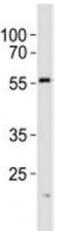
#### Handling

| Format:            | Liquid   |
|--------------------|--|
| Buffer:            | In 1X PBS, pH 7.4, with 0.09 % 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:           | -20 °C   |
| Storage Comment:   | Aliquot the SPHK1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.                     |



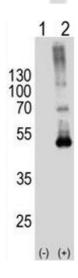
#### **Western Blotting**

**Image 1.** The SphK1 antibody 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). Predicted molecular weight: 42-51 kDa.



#### **Western Blotting**

**Image 2.** Western blot analysis of lysate from A431 cell line using SPHK1 antibody at 1:1000.



#### **Western Blotting**

**Image 3.** Western blot analysis of SPHK1 antibody and 293T cell lysate either nontransfected (Lane 1) or transiently transfected (2) with the SPHK1 gene. Predicted molecular weight: 42-51 kDa.

Please check the product details page for more images. Overall 5 images are available for ABIN3032709.