



## Rabbit anti SPHK2 Polyclonal Antibody

Alternative Name(s): sphingosine kinase 2

### Order Information

- **Description:** SPHK2
- **Catalogue:** 601-660
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu

### **ANTIGEN PREPARATION**

A full length of SPHK2 recombinant protein was used as an immunogen.

### **BACKGROUND**

Sphingosine Kinase has two isozymes (SPHK1 and SPHK2) that catalyze the phosphorylation of sphingosine into sphingosine1-phosphate (S1P). Sphingosine 1-phosphate mediates many cellular processes including migration, proliferation and apoptosis, and also plays a role in several types of cancer by promoting angiogenesis and tumorigenesis. SPHK is an important signaling enzyme which is activated by diverse agents, including growth factors that signal through receptor tyrosine kinase, agents activating G protein-coupled receptors, and immunoglobulin receptors. It also plays a role in breast cancer proliferation and chemoresistance. SPHK1 and SPHK2 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

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human SPHK2 protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 80.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)

**DATA ATTACHMENTS**

**MW (kDa)**

250-

150-

100-

75-

50-

37-

**1**



Western Blot: The whole lysate derived from Hela (20 ug/lane) immunoblotted by Rabbit anti – SPHK2 antibody (Cat# 601-660) at 1:500. Observed a major immunoreactive band at molecular weight ~80kDa.

**REFERENCES**

**FOR RESEARCH USE ONLY.**

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)