

Datasheet for ABIN359441  
**anti-SPHK2 antibody (C-Term)**



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2 Images

## Overview

Quantity:	200 µL
Target:	SPHK2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SPHK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

## Product Details

Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human SPHK2.
Isotype:	Ig Fraction
Purification:	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

## Target Details

Target:	SPHK2
Alternative Name:	Sphingosine Kinase 2 / SPK2 ( <a href="#">SPHK2 Products</a> )
Background:	Sphingosine Kinase (SphK) catalyzes the phosphorylation of the lipid sphingosine, creating the

## Target Details

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. Synonyms: SK2, SPHK2

Molecular Weight: 69217 Da

Gene ID: 56848, 9606

UniProt: [Q9NRA0](#)

Pathways: [VEGF Signaling](#)

## Application Details

Application Notes: ELISA 1: 1,000. Western blot 1: 100 - 1: 500. Immunohistochemistry 1: 50 - 1: 100.  
Other applications not tested.  
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: PBS with 0.09 % (W/V) sodium azide

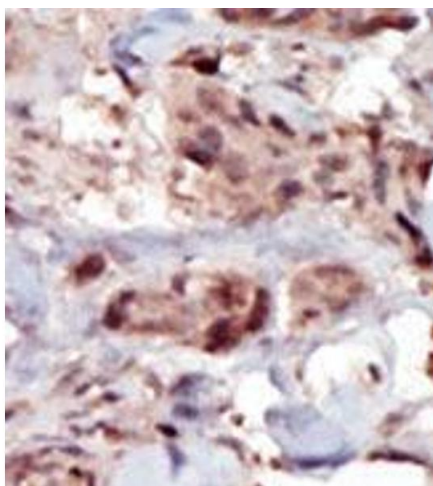
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

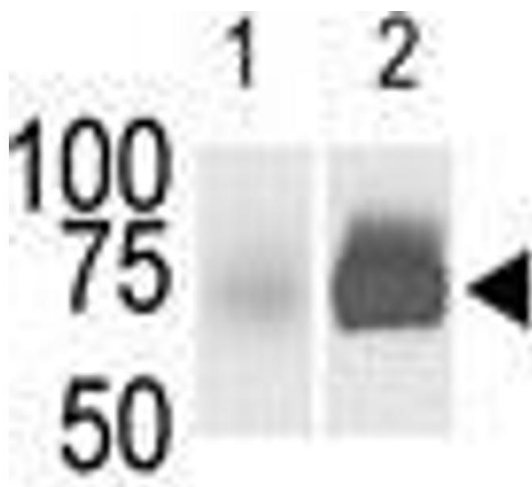
Storage: 4 °C/-20 °C

Storage Comment: Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer.



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human cancer tissue (breast carcinoma) 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.



#### Western Blotting

**Image 2.** The anti-SphK2 Pab is used in Western blot (Lane 1) to detect c-myc-tagged SphK2 in transfected 293 cell lysate (a c-myc antibody is used as control in Lane 2). Data is kindly provided by Dr. J. Van Brocklyn from the Ohio State University (Columbus, OH).