Product Name: SphK2 Rabbit Polyclonal Antibody
Catalog #: APRab18188
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000
Molecular Weight	70kDa

Antigen Information

Gene Name	SPHK2
Alternative Names	SPHK2; Sphingosine kinase 2; SK 2; SPK 2
Gene ID	56848.0
SwissProt ID	Q9NRA0
Immunogen	The antiserum was produced against synthesized peptide derived from human SPHK2. AA range:580-629

Background

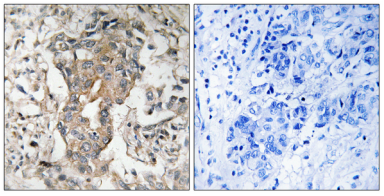
This gene encodes one of two sphingosine kinase isozymes that catalyze the phosphorylation of sphingosine into sphingosine

1-phosphate. 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. The encoded protein may play a role in breast cancer proliferation and chemoresistance. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011],alternative products:Experimental confirmation may be lacking for some isoforms,catalytic activity:ATP + sphinganine = ADP + sphinganine 1-phosphate.,catalytic activity:ATP + sphingosine = ADP + sphingosine 1-phosphate.,cofactor:Magnesium.,function:Catalyzes the phosphorylation of sphingosine to form sphingosine 1-phosphate (SPP), a lipid mediator with both intra-and extracellular functions. Also acts on D-erythro-dihydrosphingosine, D-erythro-sphingosine and L-threo-dihydrosphingosine.,similarity:Contains 1 DAGKc domain.,

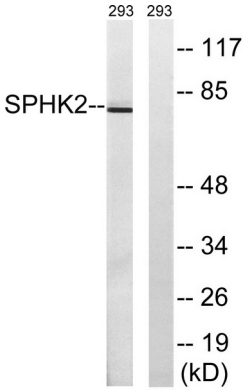
Research Area

Sphingolipid metabolism;Calcium;VEGF;Fc gamma R-mediated phagocytosis;

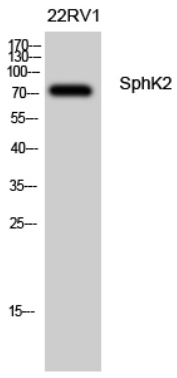
Image Data



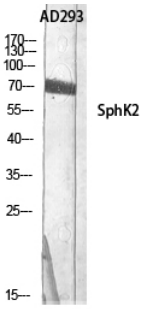
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using SPHK2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, using SPHK2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of 22RV1 cells using SphK2 Polyclonal Antibody diluted at 1: 500



Western Blot analysis of AD293 using SphK2 Polyclonal Antibody diluted at 1：500