

Product Name: SphK2 (phospho Thr614) Rabbit Polyclonal Antibody
Catalog #: APRab05461

Summary

Production Name	SphK2 (phospho Thr614) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC-P,IF-P,IF-F,ICC/IF,WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SPHK2
Alternative Names	SPHK2; Sphingosine kinase 2; SK 2; SPK 2
Gene ID	56848.0
SwissProt ID	Q9NRA0.The antiserum was produced against synthesized peptide derived from human SPHK2 around the phosphorylation site of Thr614. AA range:580-629

Application

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

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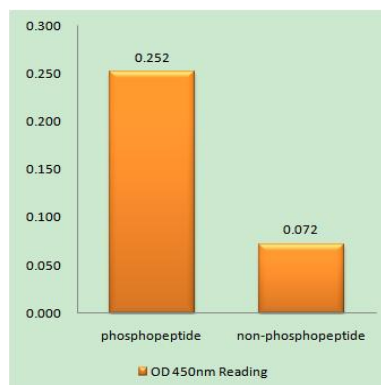
Background

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: $\text{ATP} + \text{sphinganine} = \text{ADP} + \text{sphinganine 1-phosphate}$, catalytic activity: $\text{ATP} + \text{sphingosine} = \text{ADP} + \text{sphingosine 1-phosphate}$, 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,

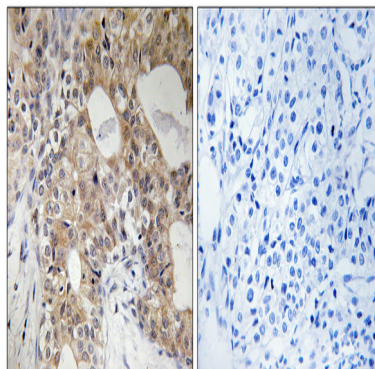
Research Area

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

Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using SPHK2 (Phospho-Thr614) Antibody





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Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using SphK2 (Phospho-Thr614) Antibody. The picture on the right is blocked with the phospho peptide.

Note

For research use only.