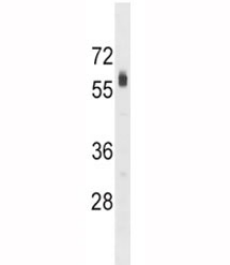
SPHK2 Antibody (F50220)

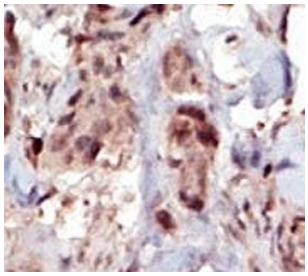
Catalog No.	Formulation	Size
F50220-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F50220-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

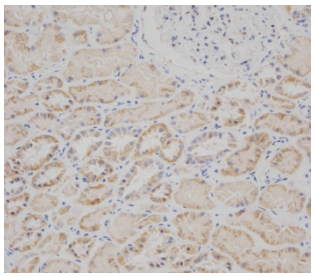
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q9NRA0
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100
Limitations	This SPHK2 antibody is available for research use only.



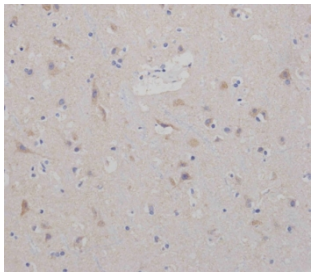
SPHK2 antibody western blot analysis in HepG2 lysate. Predicted molecular weight ~69 kDa.



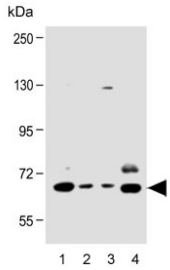
IHC analysis of FFPE human breast carcinoma tissue stained with the SPHK2 antibody.



IHC analysis of FFPE human kidney tissue stained with the SPHK2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC analysis of FFPE human brain tissue stained with the SPHK2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Western blot testing of human 1) HepG2, 2) A549, 3) HEK293 and 4) U-87 MG lysate with SPHK2 antibody. Predicted molecular weight ~69 kDa.

Description

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.

Application Notes

Titration of the SPHK2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 590-620 from the human protein was used as the immunogen for this SPHK2 antibody.

Storage

Aliquot the SPHK2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.