

SPHK1 Antibody

Catalog No: #32004



Package Size: #32004-1 50ul #32004-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

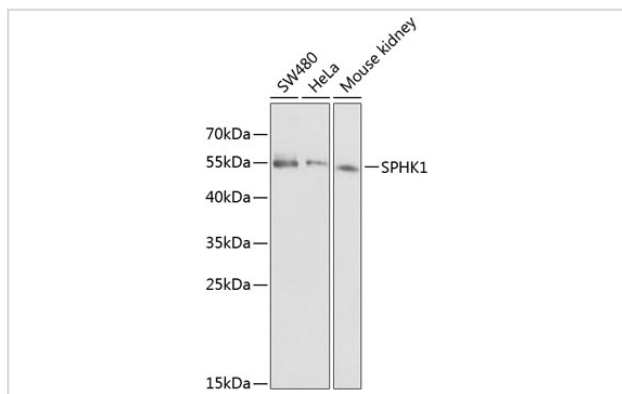
Product Name	SPHK1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total SPHK1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human SPHK1 .
Target Name	SPHK1
Other Names	PHK1; SPHK;
Accession No.	Swiss-Prot:Q9NYA1NCBI Gene ID:8877
SDS-PAGE MW	43KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

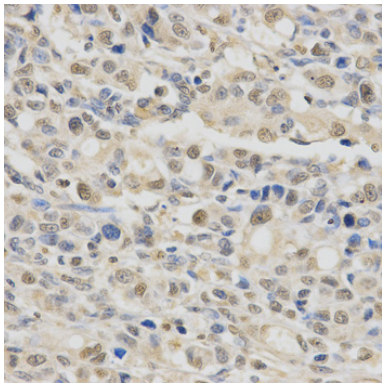
WB □ 1:500 - 1:2000

IHC □ 1:50 - 1:200

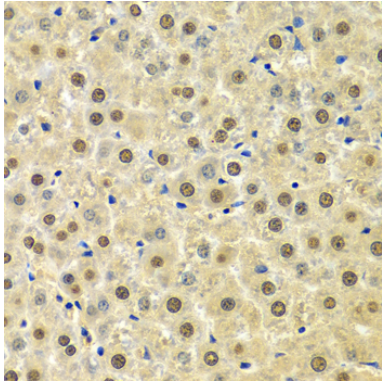
Images



Western blot analysis of extracts of various cell lines, using SPHK1 antibody at 1:1000 dilution.



Immunohistochemistry of paraffin-embedded human gastric cancer using SPHK1 antibody at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded rat liver using SPHK1 antibody at dilution of 1:100 (40x lens).

Background

Sphingosine kinases (SPHKs) catalyze the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Together with other sphingolipid metabolizing enzymes, SPHKs regulate the balance of the lipid mediators, ceramide, sphingosine, and S1P (1-4). Two distinct SPHK isoforms, SPHK1 and SPHK2, have been cloned and characterized (5,6). SPHK1 and SPHK2 are highly conserved and diversely expressed (7,8). The SPHKs are activated by G-protein-coupled receptors, receptor tyrosine kinases, immunoglobulin receptors, cytokines, and other stimuli (9-12). The molecular mechanisms by which SPHK1 and SPHK2 are specifically regulated are complex and only partially understood.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.