

For Research Use Only

SPHK1 Polyclonal antibody

Catalog Number: 10670-1-AP

Featured Product

39 Publications



Basic Information

Catalog Number:

10670-1-AP

Size:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1051

GenBank Accession Number:

BC008040

GeneID (NCBI):

8877

UNIPROT ID:

Q9NYA1

Full Name:

sphingosine kinase 1

Calculated MW:

43 kDa

Observed MW:

42 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IP, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HepG2 cells, L02 cells, MCF-7 cells

IP : L02 cells,

IHC : human breast cancer tissue, human colon cancer tissue

Background Information

SPHK(Sphingosine kinase 1) is also named as SPHK, SPK.It catalyzes the phosphorylation of sphingosine to form sphingosine 1-phosphate (SPP), a lipid mediator with both intra- and extracellular functions and is precariously perched at the balance point between progrowth and pro-death signalling in the cell.Endogenous SPHK1 purified from placenta has identical enzymatic characteristics, suggesting posttranslational modification does not effect functional properties(PMID:10947957).It has 2 isoforms produced by alternative splicing and can form the oligomeric structure(PMID:22335554).

Notable Publications

Author	Pubmed ID	Journal	Application
ZIJIA QIN	34549307	Int J Mol Med	WB
Pei-Rong Gan	36108735	Eur J Pharmacol	WB
Teresa Sanchez	12954648	J Biol Chem	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

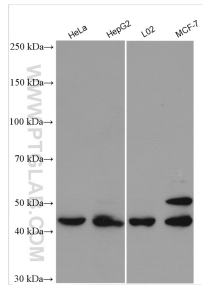
T: 4006900926

E: Proteintech-CN@ptglab.com

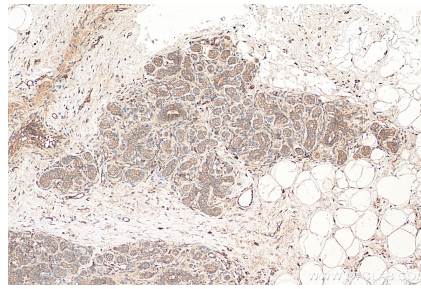
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

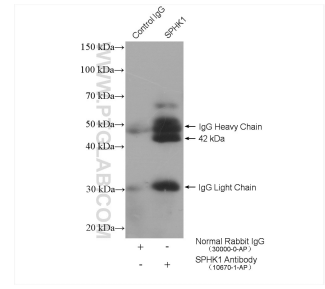
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10670-1-AP (SPHK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10670-1-AP (SPHK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-SPHK1 (IP:10670-1-AP, 4ug; Detection:10670-1-AP 1:300) with L02 cells lysate 2560 ug.