

For Research Use Only

SPHK1 Polyclonal antibody

Catalog Number: 10670-1-AP

Featured Product

54 Publications



Basic Information

Catalog Number:

10670-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

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 1:5000-1:50000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human

Cited Species:

human, mouse, rat

Positive Controls:

WB : HepG2 cells, L02 cells, MCF-7 cells MDA-MB-231 cells

IP : L02 cells,

IHC : human breast cancer tissue, human colon cancer tissue

IF/ICC : L02 cells,

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

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

*** 20ul sizes contain 0.1% BSA

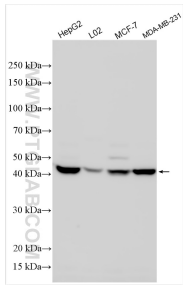
For technical support and original validation data for this product please contact:

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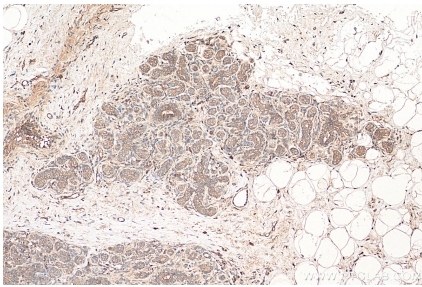
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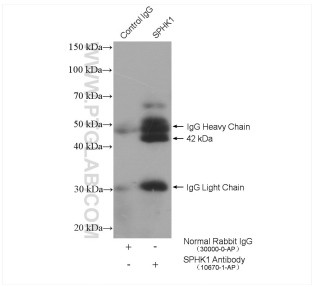
Selected Validation Data



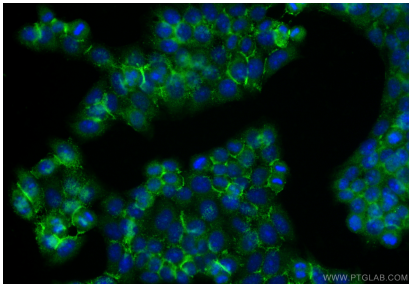
Various lysates were subjected to SDS PAGE followed by western blot with 10670-1-AP (SPHK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.



Immunofluorescent analysis of (-20°C Ethanol) fixed L02 cells using SPHK1 antibody (10670-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).