SPHK2
Polyclonal ANTIBODY

Catalog Number: 17096-1-AP

Basic Information
Catalog Number: 17096-1-AP
Size: 40 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG10569

GenBank Accession Number: BC010671
GeneID (NCBI): 56848
Full Name: sphingosine kinase 2
Calculated MW: 618aa, 65 kDa
Observed MW: 65-70 kDa

Recommended Dilutions:
WB: 1:1000-1:6000
IP: 0.5-4.0 μg for IP and 1:1000-1:1000 for WB
IHC: 1:50-1:500

Applications
Tested Applications: IF, IHC, IP, WB, ELISA
Cited Applications: IF, IHC, IP, WB
Species Specificity: human, mouse
Cited Species: human, mouse

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

Positive Controls:
WB: L02 cells; mouse heart tissue, mouse liver tissue, human kidney tissue, mouse brain tissue
IP: mouse liver tissue;
IHC: human kidney tissue; human liver tissue, human breast cancer tissue
IF: HEK-293 cells;

Background Information
SPHK2 (Sphingosine kinase 2) is also named as SK2, SPK2 and catalyzes the phosphorylation of sphingosine to form sphingosine 1-phosphate (SPP), a lipid mediator with both intra- and extracellular functions. SPHK2 associates with HDAC1 and HDAC2 in repressor complexes and is selectively enriched at the promoters of the genes encoding the cyclin-dependent kinase inhibitor p21 or the transcriptional regulator c-fos, where it enhanced local histone H3 acetylation and transcription. SPHK2 is a ~66kDa protein that is most abundantly expressed in the liver and heart (PMID: 19168577). SPHK2 has some isoforms with molecular mass of 65-70 kDa.

Notable Publications

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<td>29748384</td>
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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: 1 (888) 4PTGLAB (toll free in USA), or (312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Various lysates were subjected to SDS-PAGE followed by western blot with 17096-1-AP (SPHK2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

IP Result of anti-SPHK2 (IP: 17096-1-AP, 4 ug; Detection: 17096-1-AP 1:800) with mouse liver tissue lysate 4000 ug.

Immunohistochemistry of paraffin-embedded human kidney tissue slide using 17096-1-AP (SPHK2 Antibody) at dilution of 1:200 (under 10x lens).

Immunofluorescent analysis of (−20°C Ethanol) fixed HEK-293 cells using 17096-1-AP (SPHK2 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).