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: Affinity chromatography

Immunogen Catalog Number: AG10569

GenBank Accession Number: BC010671

Gene ID (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 1:500-1:1000 for WB
- IHC: 1:50-1:500
- IF: 1:50-1:500

Applications

Tested Applications: IF, IHC, IP, WB, ELISA

Cited Applications: IF, IHC, IP, WB

Species Specificity: human, mouse, rat

Cited Species: human, mouse

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

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 enhances 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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<th>Author</th>
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<td>Heidi A Neubauer</td>
<td>30250299</td>
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<td>Kirsi Riento</td>
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<td>Shanmugam Panneer Selvam</td>
<td>26748394</td>
<td>J Biol Chem</td>
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Storage

Storage:
- Store at -20°C. Stable for one year after shipment.
- Store at -80°C.
- 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:
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
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, 4ug; Detection: 17096-1-AP 1:800) with mouse liver tissue lysate 4000ug.

Immunohistochemical analysis 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).

Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17096-1-AP (SPHK2 Antibody) at dilution of 1:200 (under 40x lens).