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

GeneBank Accession Number: BC010971
GeneID (NCBI): 50648
Full Name: sphingosine kinase 2
Calculated MW: 618aa, 65 kDa
Observed MW: 65 kDa, 70 kDa

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 μg for IP and 1:500-1:1000 for WB
IHC 1:50-1:100

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

Positive Controls:
WB: mouse cerebellum tissue, human kidney tissue, L02 cells, mouse brain tissue, mouse heart tissue, mouse kidney tissue, mouse liver tissue
IP: mouse liver tissue
IHC: human kidney tissue, human liver tissue

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).

Notable Publications
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<th>Author</th>
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<th>Journal</th>
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<tbody>
<tr>
<td>Kirsi Riento</td>
<td>20787576</td>
<td>PLoS One</td>
<td>WB</td>
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<tr>
<td>Shanmugam Panneer Selvam</td>
<td>20740834</td>
<td>J Biol Chem</td>
<td>WB, IF, IHC</td>
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<tr>
<td>Xing Liu</td>
<td>27277203</td>
<td>J Physiol Biochem</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
Selected Validation Data

Mouse cerebellum tissue were subjected to SDS-PAGE followed by western blot with 17096-1-AP (SPHK2 antibody) at dilution of 1:300 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.

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

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