bs-2652R **[Primary Antibody]**

SPHK1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 8877 **SWISS:** Q9NYA1

Target: SPHK1

Immunogen: KLH conjugated synthetic peptide derived from human SPHK1: 1-100/384.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene catalyzes the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Intracellularly, S1P regulates proliferation and survival, and extracellularly, it is a ligand for cell surface G protein-coupled receptors. This protein, and its product S1P, play a key role in TNF-alpha signaling and the NF-kappa-B activation pathway important in inflammatory, antiapoptotic, and immune processes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

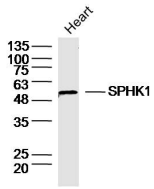
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse, Rat
(predicted: Human, Rabbit, Cow, Dog)

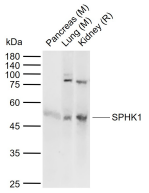
Predicted MW.: 42-52 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

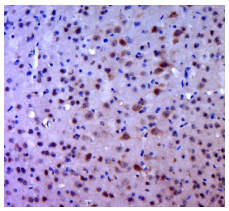
VALIDATION IMAGES



Sample: Heart (Mouse) Lysate at 30 ug Primary: Anti- SPHK1 (bs-2652R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52kD



Sample: Lane 1: Mouse Pancreas tissue lysates Lane 2: Mouse Lung tissue lysates Lane 3: Rat Kidney tissue lysates Primary: Anti-SPHK1 (bs-2652R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42-52 kDa Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPHK1) Polyclonal Antibody, Unconjugated (bs-2652R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=11.743]** Harlé Guillaume. et al. Macroautophagy in lymphatic endothelial cells inhibits T cell–mediated autoimmunity. J Exp Med. 2021 Jun;218(6):e20201776. WB ;Mouse. 33861848
- **[IF=6.208]** Christopher D. Carlucci. et al. Resveratrol Protects against Skin Inflammation through Inhibition of Mast Cell, Sphingosine Kinase-1, Stat3 and NF-κB p65 Signaling Activation in Mice. INT J MOL SCI. 2023 Jan;24(7):6707 WB ;Mouse. 37047680
- **[IF=4.29]** Tran, Hai B., et al. "Cigarette smoke inhibits efferocytosis via deregulation of sphingosine kinase signaling:

reversal with exogenous S1P and the S1P analogue FTY720." Journal of Leukocyte Biology (2016): jlb-3A1015. Other ;="Human". 26792820

- **[IF=3.53]** Tani, Kohsuke, Keiji Tabuchi, and Akira Hara. "Hair Cell Loss Induced by Sphingosine and a Sphingosine Kinase Inhibitor in the Rat Cochlea."Neurotoxicity research 29.1 (2016): 35-46. WB,ICC ;="Rat". 26472207
- **[IF=3.612]** Hai B. Tran. et al. Dysregulated zinc and sphingosine-1-phosphate signaling in pulmonary hypertension: Potential effects by targeting of bone morphogenetic protein receptor type 2 in pulmonary microvessels. 2021 Aug 15 IF ;Rat. 34347342