bs-2653R **[Primary Antibody]**

SPHK2 | SK2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 56848 **SWISS:** Q9NRA0

Target: SPHK2 | SK2

Immunogen: KLH conjugated synthetic peptide derived from human SPHK2: 101-200/654.

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: This gene encodes a kinase that phosphorylates sphingosine into sphingosine-1-phosphate, which is involved in cell differentiation, motility, and apoptosis. The encoded protein plays a role in maintaining cellular levels of sphingosine-1-phosphate. The gene product also enhances apoptosis in different cell types and suppresses cellular proliferation. In mast cells, the encoded protein is necessary for influx of calcium, protein kinase C activation, and cytokine production and degranulation. Alternative splicing results in multiple transcript variants. [provided by RefSeq].

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

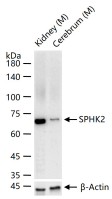
Reactivity: Human, Mouse

Predicted MW.: 72 kDa

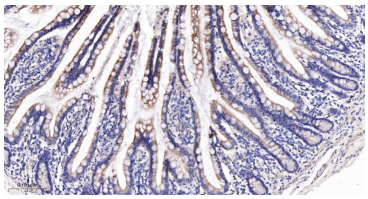
Observed MW.: 68 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

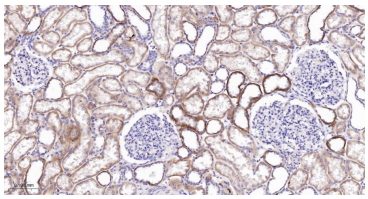
VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with SPHK2 polyclonal antibody, unconjugated (bs-2653R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SPHK2 Polyclonal Antibody, Unconjugated (bs-2653R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SPHK2 Polyclonal Antibody, Unconjugated (bs-2653R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=18.1]** Chakraborty Paramita. et al. Sphingosine kinase-2 inhibition promotes immunogenic differentiation of myeloid-derived suppressor cells through an Acetyl-CoA carboxylase-phosphatidylcholine axis. NAT COMMUN. 2026 Jun;: mIF ;Human. 42230631
- **[IF=16.3]** Silvia Tiberti. et al. Palmitate-induced mitochondrial damage restricts histone acetylation in CD8 T cells to impair antitumor immunity. SCI IMMUNOL. 2026 Mar;11(117) FC ;Mouse. 41894555
- **[IF=15.2]** Fina Lovren. et al. MicroRNA-145 Targeted Therapy Reduces Atherosclerosis. CIRCULATION. Circulation. 2012;126:S81–S90 WB ;="Mouse". 22965997
- **[IF=5.853]** Mili Minaduola. et al. The circadian clock sets a spatial–temporal window for recent thymic emigrants.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

IMMUNOL CELL BIOL. 2022 Sep;: IF ;Mouse. 36030488

- **[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

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