

bs-2653R**[Primary Antibody]****SPHK2 Rabbit pAb****Bioss**
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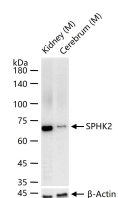
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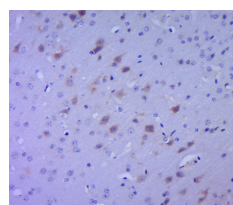
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— DATASHEET —

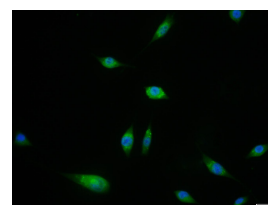
Host: Rabbit Clonality: Polyclonal GeneID: 56848 Target: SPHK2 Immunogen: KLH conjugated synthetic peptide derived from human SPHK2: 101-200/654. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. 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].	Isotype: IgG SWISS: Q9NRA0	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ICC/IF (1:100) ELISA (1:5000-10000) Reactivity: Human, Mouse (predicted: Rat) Predicted MW.: 72 kDa Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus
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— 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 (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 (SPHK2) Polyclonal Antibody, Unconjugated (bs-2653R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (SPHK2) polyclonal Antibody, Unconjugated (bs-2653R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=15.2]** Lovren, Fina, et al. "MicroRNA-145 Targeted Therapy Reduces Atherosclerosis." Circulation 126.11 suppl 1 (2012): S81-S90. WB ;="Mouse". 22965997
- **[IF=5.853]** Mili Minaduola. et al. The circadian clock sets a spatial-temporal window for recent thymic emigrants. 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

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

;="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=2.71]** Zhang, Ruxin, et al. "Hypoxic preconditioning protects cardiomyocytes against hypoxia/reoxygenation-induced cell apoptosis via sphingosine kinase 2 and FAK/AKT pathway." *Experimental and Molecular Pathology* (2015). WB ;="Rat". 26621495