

SPHK1 polyclonal antibody

Catalog: BS91277

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Sphingosine kinase (SphK or SphK1) is a key enzyme catalyzing the phosphorylation of sphingosine to form sphingosine 1-phosphate (SPP or S1P). Competitive inhibitors of SphK1 block formation of SPP and selectively inhibit cellular proliferation induced by a variety of factors. One potent inhibitor of SphK1 activity is DMS (N,N-dimethylsphingosine). SPP/SphK1 has been implicated as a signaling pathway that regulates diverse cellular functions, including cell growth, proliferation and survival. Specifically, SphK1 is involved in the signaling pathway(s) that protects human hepatocytes from the apoptotic action of TNF α . Furthermore, SPP/SphK1 may play an important role in neuronal survival by regulating activation of SAPKs and caspases. SphK1 is widely expressed with highest levels in adult liver, kidney, heart and skeletal muscle; however, activation of SphK1 disengages cells from their liver-specific phenotype.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

51 kDa

Swiss-Prot:

Q9NYA1(Human) Q8CI15(Mouse) Q91V26(Rat)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:500-1:1,000

IHC:1:50-1:200

FC:1:50

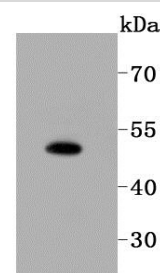
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

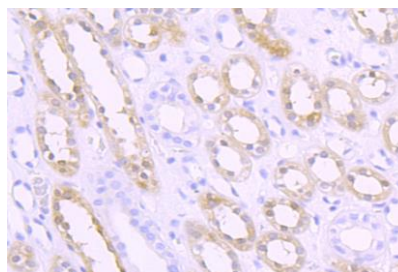
Specificity:

SPHK1 polyclonal antibody detects endogenous levels of SPHK1 protein.

DATA:



Western blot analysis of SPHK1 on C2C12 lysates using anti-SPHK1 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-SPHK1 antibody. Counter stained with hematoxylin.

Note:

For research use only, not for use in diagnostic procedure.

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