Data Sheet (Cat.No.TMAC-03836)

Anti-Sphingosine Kinase 1/SPHK1 Antibody (6L121)

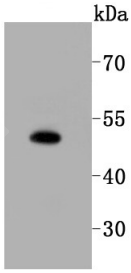
Product Details

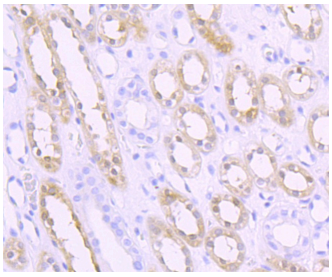
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 51 kDa.
Clone:	6L121
Purification:	ProA affinity purified

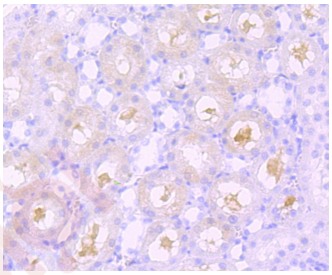
Applications

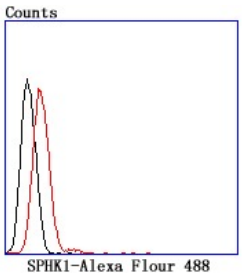
Verified Activity:

1. Western blot analysis of SPHK1 on C2C12 lysates using anti-SPHK1 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-SPHK1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-SPHK1 antibody. Counter stained with hematoxylin.
4. Flow cytometric analysis of Raji cells with SPHK1 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).









Application: FCM,IHC,WB

Recommended: WB: 1:500-1000; IHC: 1:50-200; FCM: 1:50

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q9NYA1

Synonyms: SPK;SPHK;SPHK1;sphingosine kinase 1

Research 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 TNFα. 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.

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