

## Rabbit SPHK1 Monoclonal Antibody | anti-SPHK1 antibody

SPHK1 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                         |
|-----------|--------|-------------------|----------------------------------------------------------------------|
| AAA312514 | Rabbit | Human, Mouse, Rat | Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot |

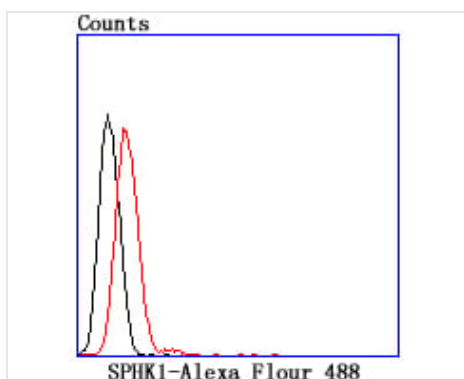
### PRODUCT SYNONYMS

SPHK1; Monoclonal Antibody; SPHK1 Antibody; SK 1 antibody; SK1 antibody; Sphingosine kinase 1 antibody; SPHK 1 antibody; SPHK antibody; Sphk1 antibody; SPHK1\_HUMAN antibody; SPK antibody; SPK 1 antibody; anti-SPHK1 antibody

### PRODUCT SPECIFICATIONS

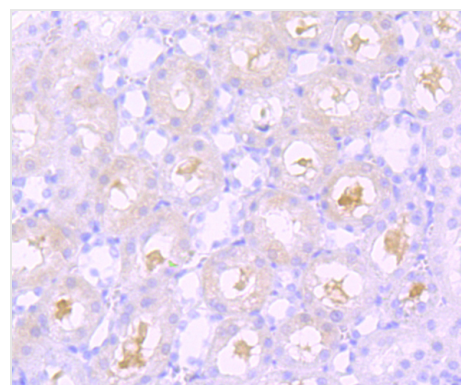
|                                                 |                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                   |
| Reactivity                                      | Human, Mouse, Rat                                                        |
| Clonality                                       | Monoclonal                                                               |
| Clone Number                                    | JA31-14                                                                  |
| Purity/Purification                             | ProA affinity purified                                                   |
| Form/Format                                     | 1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.   |
| Applicable Applications for anti-SPHK1 antibody | FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot) |
| Antibody Type                                   | Recombinant Antibody                                                     |
| Immunogen                                       | Recombinant protein                                                      |
| Conjugation                                     | Unconjugated                                                             |
| Preparation and Storage                         | Store at -20 degree C.                                                   |

### IMAGES



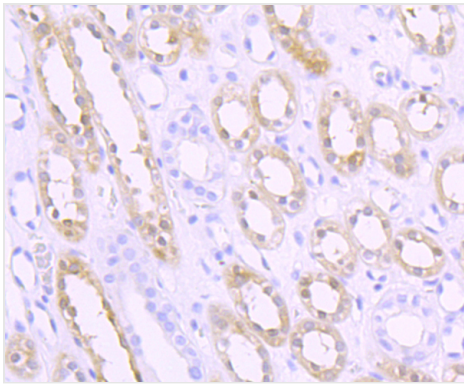
#### FCM/FACS (Flow Cytometry)

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).



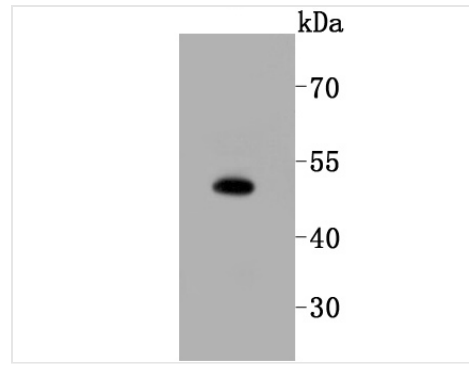
#### IHC (Immunohistochemistry)

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



#### IHC (Immunohistochemistry)

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



#### WB (Western Blot)

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

## ADDITIONAL INFORMATION

#### Related Product Information for anti-SPHK1 antibody

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 $\alpha$ . 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 Categories/Family for anti-SPHK1 antibody

Total protein Ab

## NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 17369329                                       |
| NCBI GeneID                      | 8877                                           |
| UniProt Accession #              | Q9NYA1; Q8N632; Q96GK1; Q9HD92; Q9NY70; Q9NYL3 |
| Molecular Weight                 | 384                                            |
| NCBI Official Full Name          | Sphingosine kinase 1                           |
| NCBI Official Synonym Full Names | sphingosine kinase 1                           |
| NCBI Official Symbol             | SPHK1                                          |
| NCBI Official Synonym Symbols    | SPHK                                           |
| NCBI Protein Information         | sphingosine kinase 1; SK 1; SPK 1              |
| UniProt Protein Name             | Sphingosine kinase 1                           |
| UniProt Gene Name                | <b>SPHK1</b>                                   |
| UniProt Synonym Gene Names       | SPHK; SPK; SK 1; SPK 1                         |
| UniProt Entry Name               | SPHK1_HUMAN                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.