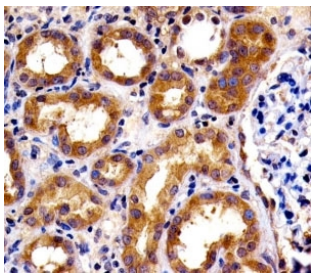
# SPHK1 Antibody (F50218)

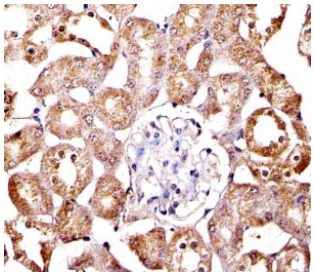
| Catalog No. | Formulation | Size |
|---|---|---|
| F50218-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F50218-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

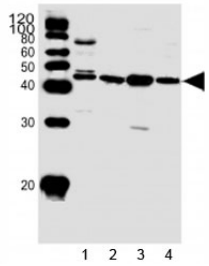
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Purified |
| **UniProt** | Q9NYA1 |
| **Applications** | IHC (Paraffin) : 1:100<br>Western Blot : 1:1000 |
| **Limitations** | This SPHK1 antibody is available for research use only. |



IHC analysis of FFPE human kidney section using SPHK1 antibody; Ab was diluted at 1:100.



Immunohistochemical analysis of paraffin-embedded mouse kidney section using SPHK1 antibody; Ab was diluted at 1:100 dilution.




Western blot analysis of lysate from 1) HepG2 cell line and human 2) heart, 3) skeletal muscle, 4) kidney tissue using SPHK1 antibody at 1:1000. Predicted molecular weight: ~43/51/44kDa (isoforms 1/2/3).

## Description

Sphingosine Kinase (SphK) catalyzes the phosphorylation of the lipid sphingosine, creating the bioactive lipid sphingosine-1-phosphate (S1P). S1P subsequently signals through cell surface G protein-coupled receptors, as well as intracellularly, to modulate cell proliferation, survival, motility and differentiation. SphK is an important signaling enzyme which is activated by diverse agents, including growth factors that signal through receptor tyrosine kinases, agents activating G protein-coupled receptors, and immunoglobulin receptors. Two SphK isotypes, SphK-1 and SphK-2, have been cloned, and both isotypes are ubiquitously expressed. SphK-1 has been shown to mediate cell growth, prevention of apoptosis, and cellular transformation, and is upregulated in a variety of human tumors. In contrast, SphK-2 increases apoptosis, and may be responsible for phosphorylating and activating the immunosuppressive drug FTY720.

## Application Notes

Titration of the SPHK1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 59-89 from the human protein was used as the immunogen for this SPHK1 antibody.

## Storage

Aliquot the SPHK1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com