

SPHK1 (Phospho Ser225) Rabbit pAb

CatalogNo: YP1683 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 42kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human SPHK1 (Phospho-Ser225)

Specificity This antibody detects endogenous levels of SPHK1 (Phospho-Ser225) at Human, Mouse, Rat. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): PAsPV

| Target Information

Gene name SPHK1 SPHK SPK

Protein Name Sphingosine kinase 1

Organism	Gene ID	UniProt ID
Human	8877 ;	Q9NYA1 ;
Mouse	20698 ;	Q8CI15 ;
Rat	170897 ;	Q91V26 ;

Cellular Localization

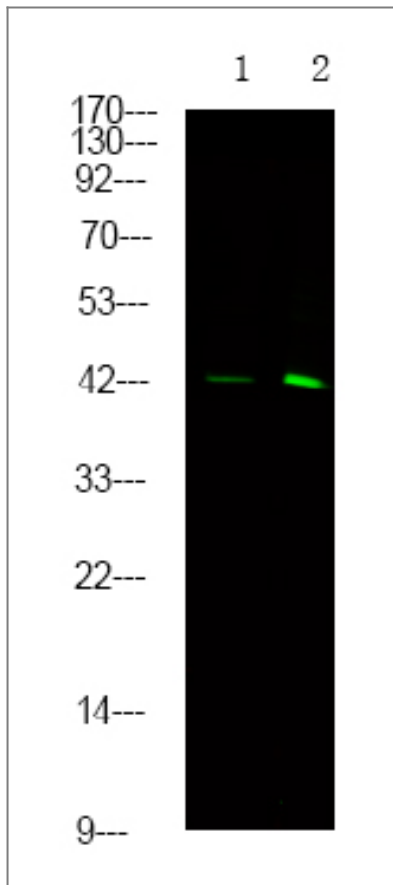
Cytoplasm . Nucleus . Cell membrane . Endosome membrane ; Peripheral membrane protein . Membrane, clathrin-coated pit . Cell junction, synapse . Translocated from the cytoplasm to the plasma membrane in a CIB1-dependent manner (PubMed:19854831). Binds to membranes containing negatively charged lipids but not neutral lipids (PubMed:24929359). Recruited to endocytic membranes by sphingosine where promotes membrane fusion (By similarity). .

Tissue specificity Widely expressed with highest levels in adult liver, kidney, heart and skeletal muscle. Expressed in brain cortex (at protein level) (PubMed:29662056).

Function

Catalytic activity:ATP + sphinganine = ADP + sphinganine 1-phosphate.,Catalytic activity:ATP + sphingosine = ADP + sphingosine 1-phosphate.,cofactor:Magnesium.,Function:Catalyzes the phosphorylation of sphingosine to form sphingosine 1-phosphate (SPP), a lipid mediator with both intra-and extracellular functions. Also acts on D-erythro-sphingosine and to a lesser extent sphinganine, but not other lipids, such as D,L-threo-dihydrosphingosine, N,N-dimethylsphingosine, diacylglycerol, ceramide, or phosphatidylinositol.,similarity:Contains 1 DAGKc domain.,subunit:Interacts with ACY1 (By similarity). Binds to calmodulin. Interacts with SPHKAP.,tissue specificity:Widely expressed with highest levels in adult liver, kidney, heart and skeletal muscle.,

| Validation Data



Western Blot analysis of 1 MCF-7 cell, 2 LPS 100ng/mL 30min treated ,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000

Contact information

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SPHK1 (Phospho Ser225) Rabbit pAb

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