

Datasheet for ABIN5510666

**SPHK1 ELISA Kit**[Go to Product page](#)**1** Image

## Overview

Quantity: 96 tests

Target: SPHK1

Binding Specificity: AA 1-384

Reactivity: Human

Method Type: Sandwich ELISA

Application: ELISA

## Product Details

Purpose: Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human SPHK1

Brand: PicoKine™

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: Expression system for standard: NSO  
Immunogen sequence: M1-L384

Cross-Reactivity (Details): There is no detectable cross-reactivity with other relevant proteins.

Characteristics: Tissue Specificity: Widely expressed with highest levels in adult liver, kidney, heart and skeletal muscle. .

## Target Details

Target: SPHK1

## Target Details

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Alternative Name: [SPHK1 \(SPHK1 Products\)](#)

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Background: Protein 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.

Background: Sphingosine kinase 1 is an enzyme that in humans is encoded by the SPHK1 gene. The protein encoded by this gene catalyzes the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Intracellularly, S1P regulates proliferation and survival, and extracellularly, it is a ligand for cell surface G protein-coupled receptors. This protein, and its product S1P, play a key role in TNF-alpha signaling and the NF-kappa-B activation pathway important in inflammatory, antiapoptotic, and immune processes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Synonyms: Sphingosine kinase 1,SK 1,SPK 1,2.7.1.91,SPHK1,SPHK, SPK,

Full Gene Name: Sphingosine kinase 1

Cellular Localisation: Cytoplasm. Nucleus. Cell membrane. Translocated from the cytoplasm to the plasma membrane in a CIB1-dependent manner.

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UniProt: [Q9NYA1](#)

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Pathways: [VEGF Signaling](#)

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## Application Details

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Plate: Pre-coated

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Restrictions: For Research Use only

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## Handling

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Storage: 4 °C,-20 °C

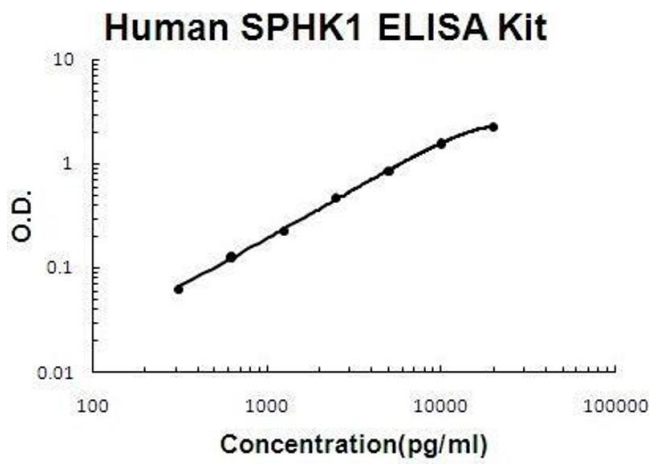
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Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

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Expiry Date: 12 months

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#### ELISA

**Image 1.** Human SPHK1 PicoKine ELISA Kit standard curve