



# Human SPHK1 blocking peptide (CDBP2796)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Blocking/Immunizing peptide for anti-SPHK1 (C-term.) antibody
<b>Antigen Description</b>	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. [provided by RefSeq, Sep 2011]
<b>Species</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Apuri, BL, ELISA
<b>Format</b>	Lyophilized powder
<b>Size</b>	100 µg
<b>Preservative</b>	None
<b>Storage</b>	Shipped at ambient temperature, store at -20°C.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SPHK1 sphingosine kinase 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	SPHK1
<b>Synonyms</b>	SPHK1; sphingosine kinase 1; SPHK; SK 1; SPK 1;

<b>Entrez Gene ID</b>	<a href="#">8877</a>
<b>mRNA Refseq</b>	<a href="#">NM_001142601</a>
<b>Protein Refseq</b>	<a href="#">NP_001136073</a>
<b>UniProt ID</b>	Q9NYA1
<b>Chromosome Location</b>	17q25.2
<b>Pathway</b>	Association of TriC/CCT with target proteins during biosynthesis, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Chaperonin-mediated protein folding, organism-specific biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem; Fc-epsilon receptor I signaling in mast cells, organism-specific biosystem;
<b>Function</b>	ATP binding; D-erythro-sphingosine kinase activity; DNA binding; calmodulin binding; diacylglycerol kinase activity; magnesium ion binding; magnesium ion binding; nucleotide binding; protein binding; protein phosphatase 2A binding; sphinganine kinase acti