

Rabbit anti-Human Sphingosine Kinase 1 Polyclonal Antibody | anti-SPHK1 antibody

Sphingosine Kinase 1 (Central region) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71710	Rabbit	Human	ELISA, Western Blot

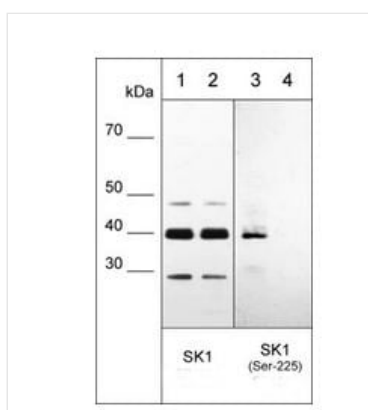
PRODUCT SYNONYMS

Sphingosine Kinase 1; Polyclonal Antibody; Sphingosine Kinase 1 (Central region) Antibody; Sphingosine Kinase 1 (Central region); SPHK1; anti-SPHK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	This antibody was affinity purified using SK1 (Central Region) peptide. The purified antibody detects a 47kDa* full-length recombinant human SK1 protein. In mouse, the antibody detects SK1 in isolated cardiac myocytes, but not in SK1-null mice (Tao, R. et al. (2007) Cardiovas. Res. 74:56.).
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-SPHK1 antibody	ELISA, WB (Western Blot)
Immunogen	SK1 synthetic peptide (coupled to carrier protein) corresponding to an unphosphorylated sequence of amino acids surrounding serine 225 in the central region of human SK1. This sequence has 4 amino acid differences from mouse and 5 from rat SK1, and is not homologous to sequences in SK2.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



WB (Western Blot)

Western blot of HeLa stimulated with calyculin A (lanes 1-4). The blots were untreated (lane 1 & 3) or treated with lambda phosphatase (lane 2 & 4), then probed with anti-SK1 (Central region) SP1621 (lanes 1 & 2) or anti-SK1 (Ser-225) SP1641 (lanes 3 & 4).



WB (Western Blot)

Western blot image of recombinant his-tagged human SK1 protein that was phosphorylated with ERK-2. Blots were probed with anti-SK1 (Central Region) (SP1621; lanes 1-3) and anti-SK1 (Ser-225) (SP1641; lanes 4-6). Both antibodies were used in the presence of no peptide (lanes 1 & 4), phospho-SK1 (Ser-225) peptide (SX1645; lanes 2 & 5), or unphosphorylated SK1 (Ser-225) peptide (SX1625; lanes 3 & 6).

ADDITIONAL INFORMATION

Related Product Information for anti-SPHK1 antibody	Sphingolipids are metabolized into bioactive products that include ceramide, sphingosine, and sphingosine-1-phosphate (S1P). Sphingosine Kinase (SK) catalyzes the phosphorylation of the lipid sphingosine, creating S1P. S1P subsequently signals through cell surface G protein-coupled receptors, as well as intracellularly, to modulate cell proliferation, survival, motility and differentiation. Two isoforms of SK have been identified, SK1 and SK2. The mRNA for both of these isoforms is widely expressed with SK1 expression highest in brain, heart, kidney, thymus, spleen and lung, while SK2 is highest in kidney and liver. SKs can be activated through growth factor, G protein-coupled, and immunoglobulin receptor signalling. SK1 has been shown to mediate cell growth, prevention of apoptosis, and cellular transformation, and is upregulated in a variety of human tumors. Regulation of SK1 may occur through ERK mediated phosphorylation of Ser-225. This phosphorylation leads to increased activity and translocation to the plasma membrane.
References	Pitson, S.M. et al. (2005) J Exp. Med. 201(1) :49. Pitson, S.M. et al. (2003) EMBOJ. 22(20) :5491. Melendez, A.J. et al. (2000) Gene 251(1) :19.

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	SPHK1
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sphingosine-kinase-1-antibody-western-blot-elisa/71710>