

Rabbit SPHK1 Polyclonal Antibody | anti-SPHK1 antibody

SPHK1 Antibody (Center)

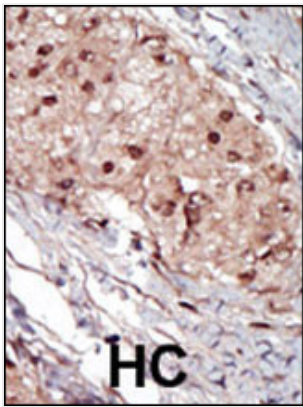
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288346	Rabbit	Human, Mouse, Rat, Monkey	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

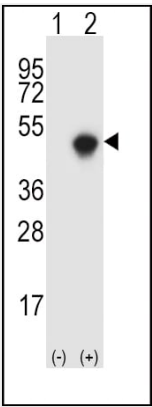
SPHK1; Polyclonal Antibody; SPHK1 Antibody (Center); Sphingosine kinase 1; SK 1; SPK 1; SPHK; SPK; anti-SPHK1 antibody

PRODUCT SPECIFICATIONS

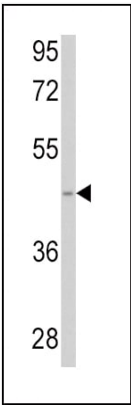
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SPHK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 286-315 amino acids from the Central region of human SPHK1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	286-315
Sequence Length	384
Applicable Applications for anti-SPHK1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



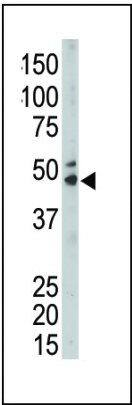
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



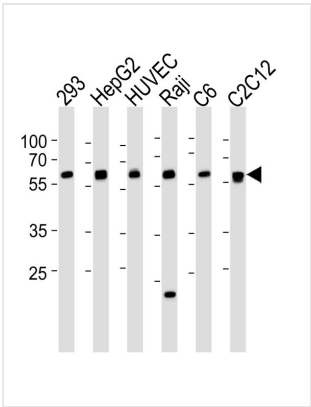
WB (Western Blot)
Western blot analysis of SPHK1 (arrow) using rabbit polyclonal SPHK1 Antibody (R301). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SPHK1 gene.



WB (Western Blot)
Western blot analysis of anti-SPHK1 Antibody (Center) in 293 cell line lysates (35ug/lane). SPHK1 (arrow) was detected using the purified Pab.



WB (Western Blot)
The anti-SPHK1 Pab is used in Western blot to detect SPHK1 in mouse kidney tissue lysate.



WB (Western Blot)
Western blot analysis of lysates from 293, HepG2, HUVEC, Raji, rat C6, mouse C2C12 cell line (from left to right), using SPHK1 Antibody (R301). AAA288346 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-SPHK1 antibody	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.
Product Categories/Family for anti-SPHK1 antibody	Cancer; Metabolism; Signal Transduction
References	Ota, T., et al., Nat. Genet. 36(1):40-45 (2004). Nava, V.E., et al., FEBS Lett. 473(1):81-84 (2000). Melendez, A.J., et al., Gene 251(1):19-26 (2000). Pitson, S.M., et al., Biochem. J. 350 Pt 2, 429-441 (2000).

NCBI AND UNIPROT INFORMATION

NCBI GI #	217272883
NCBI GeneID	8877
NCBI Accession #	NP_001136073.1; NP_001136074.1; NP_068807.2; NP_892010.2
NCBI GenBank Nucleotide #	NM_001142601.1
UniProt Accession #	Q9NYA1; Q8N632; Q96GK1; Q9HD92; Q9NY70; Q9NYL3
Molecular Weight	42518
NCBI Official Full Name	sphingosine kinase 1 isoform 3
NCBI Official Synonym Full Names	sphingosine kinase 1
NCBI Official Symbol	SPHK1
NCBI Official Synonym Symbols	SPHK
NCBI Protein Information	sphingosine kinase 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/sphk1-antibody-immunohistochemistry-western-blot-elisa/288346>