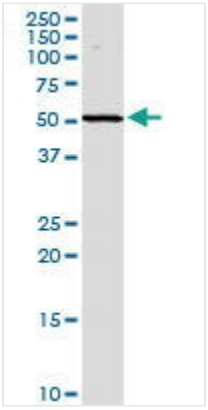
SPHK2 Antibody – Rabbit Polyclonal

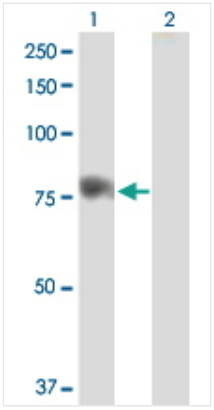
PRODUCT OVERVIEW

Product Name	SPHK2, Polyclonal Antibody
Full Product Name	SPHK2 (Sphingosine Kinase 2, SK 2, SK-2, SPK 2, SPK-2) (HRP)
Product Gene Name	anti-SPHK2 antibody
Product Synonym Names	EC=2.7.1.91
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SPHK2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	80,205 Da
OMIM	607092
3D Structure	ModBase 3D Structure for Q9NRA0
Immunogen	Full length human SPHK2, aa1-654 (NP_064511.2).
Immunogen Sequence	MNGHLEAEEQQDQRPDQELTGSWGHGPRSTLVRAKAMAPPPPPLAASTPLLHGEFGSYPARGPRFALTLTSQALHIQRLRPKPEARPRGGLVPLAEVS
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-SPHK2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-SPHK2 antibody	Western Blot (WB)
Application Notes for anti-SPHK2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-SPHK2 antibody	MBS6394920 is an antibody targeting SPHK2. Also known as SPHK2 (Sphingosine Kinase 2, SK 2, SK-2, SPK 2, SPK-2) (HRP). Reactive in Human. H
Other Notes	Small volumes of anti-SPHK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces



Western Blot (WB) of anti-SPHK2 antibody
SPHK2 rabbit polyclonal antibody. Western Blot analysis of SPHK2 expression in human pancreas.



Western Blot (WB) of anti-SPHK2 antibody
Western Blot analysis of SPHK2 expression in transfected 293T cell line by SPHK2 polyclonal antibody. Lane 1: SPHK2 transfected lysate (69.2kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPHK2. It may not necessarily be applicable to this product.

NCBI GI #	21361699
NCBI GeneID	56848
NCBI Accession #	NP_064511.2
UniProt Primary Accession #	Q9NRA0
UniProt Secondary Accession #	Q9BRN1; Q9H0Q2; Q9NWU7; A0T4C8; B4DU87
UniProt Related Accession #	Q9NRA0
GenBank Nucleotide #	NM_020126
NCBI Official Full Name	sphingosine kinase 2 isoform a
NCBI Official Synonym Full Names	sphingosine kinase 2
NCBI Official Symbol	SPHK2
NCBI Official Synonym Symbols	SK 2; SK-2; SPK 2; SPK-2
UniProt Protein Name	Sphingosine kinase 2
Protein Family	Sphingosine kinase
UniProt Gene Name	SPHK2
UniProt Synonym Gene Names	SK 2; SPK 2
UniProt Entry Name	SPHK2_HUMAN
NCBI Protein Information	sphingosine kinase 2; sphingosine kinase type 2

NCBI Summary for SPHK2	This gene encodes one of two sphingosine kinase isozymes that catalyze the phosphorylation of sphingosine into sphingosine 1-phosphate. Sphingosine 1-phosphate mediates many cellular processes including migration, proliferation and apoptosis, and also plays a role in several types of cancer by promoting angiogenesis and tumorigenesis. The encoded protein may play a role in breast cancer proliferation and chemoresistance. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]
UniProt Comments for SPHK2	SPHK2: 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- dihydrosphingosine, D-erythro-sphingosine and L-threo- dihydrosphingosine. Binds phosphoinositides. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - sphingolipid; EC 2.7.1.91; Kinase, lipid Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: membrane; lysosomal membrane; cytosol Molecular Function: D-erythro-sphingosine kinase activity; protein binding; Ras GTPase binding; sphinganine kinase activity; diacylglycerol kinase activity; ATP binding; NAD+ kinase activity Biological Process: blood vessel development; cell proliferation; sphingolipid metabolic process; sphingolipid biosynthetic process; positive regulation of cell proliferation; protein kinase C activation; sphingosine metabolic process; sphinganine-1-phosphate biosynthetic process; brain development; lipid phosphorylation; negative regulation of apoptosis
Research Articles on SPHK2	**1.** Data show that sphingosine kinase SphK1 and sphingosine-1-phosphate (S1P) receptors S1P1, S1P2, S1P3, and S1P5 were expressed from primary, up to recurrent and secondary glioblastomas, with sphingosine kinase SphK2 levels were highest in primary tumors.
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