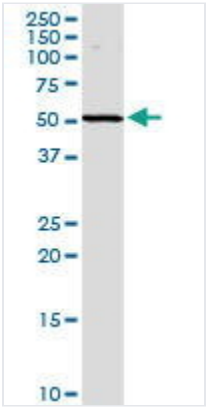
SPHK2 Antibody – Rabbit Polyclonal

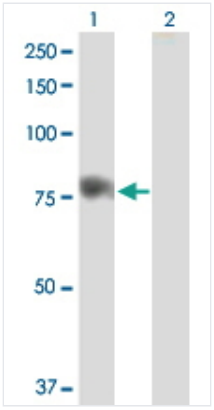
PRODUCT OVERVIEW

Product Name	SPHK2, Polyclonal Antibody
Full Product Name	SPHK2 (Sphingosine Kinase 2, SK 2, SK-2, SPK 2, SPK-2) APC
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 Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SPHK2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
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	APC
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	MBS6394917 is an antibody targeting SPHK2. Also known as SPHK2 (Sphingosine Kinase 2, SK 2, SK-2, SPK 2, SPK-2) APC. Reactive in Human. Ho
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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