SPHK2 cDNA Clone – Sphingosine Kinase 2 (Human)

PRODUCT OVERVIEW

Product Name	SPHK2, cDNA Clone
Full Product Name	SPHK2 cDNA Clone
Product Gene Name	SPHK2 cdna clone
Sequence	atgaatggac accttgaagc agaggagcag caggaccaga ggccagacca ggagctgacc gggagctggg gccacgggcc taggagcacc ctggtcaggg ctaaggccat ggccccgccc ccaccgccac tggctgccag caccccgctc ctccatggcg agtttggctc ctacccagcc cgaggcccac gctttgccct cacccttaca tcgcaggccc tgcacataca gcggctgcgc cccaaacctg aagccaggcc ccggggtggc ctggtcccgt tggccgaggt ctcaggctgc tgcaccctgc gaagccgcag cccctcagac tcagcggcct acttctgcat ctacacctac cctcggggcc ggcgcggggc ccggcgcaga gccactcgca ccttccgggc agatggggcc gccacctacg aagagaaccg tgccgaggcc cagcgctggg ccactgccct cacctgtctg ctccgaggac tgccactgcc cggggatggg gagatcaccc ctgacctgct acctcggccg ccccggttgc ttctattggt caatcccttt gggggtcggg gcctggcctg gcagtggtgt aagaaccacg tgcttcccat gatctctgaa gctgggctgt ccttcaacct catccagaca gaacgacaga accacgcccg ggagctggtc caggggctga gcctgagtga gtgggatggc atcgtcacgg tctcgggaga cgggctgctc catgaggtgc tgaacgggct cctagatcgc cctgactggg aggaagctgt gaagatgcct gtgggcatcc tcccctgcgg ctcgggcaac gcgctggccg gagcagtgaa ccagcacggg ggatttgagc cagccctggg cctcgacctg ttgctcaact gctcactgtt gctgtgccgg ggtggtggcc acccactgga cctgctctcc gtgacgctgg cctcgggctc ccgctgtttc tccttcctgt ctgtggcctg gggcttcgtg tcagatgtgg atatccagag cgagcgcttc agggccttgg gcagtgcccg cttcacactg ggcacggtgc tgggcctcgc cacactgcac acctaccgcg gacgcctctc ctacctcccc gccactgtgg aacctgcctc gcccacccct gcccatagcc tgcctcgtgc caagtcggag ctgaccctaa ccccagaccc agccccgccc atggcccact cacccctgca tcgttctgtg tctgacctgc ctcttcccct gccccagcct gccctggcct ctcctggctc gccagaaccc ctgcccatcc tgtccctcaa cggtgggggc ccagagctgg ctggggactg gggtggggct ggggatgctc cgctgtcccc ggacccactg ctgtcttcac ctcctggctc tcccaaggca gctctacact cacccgtctc cgaaggggcc cccgtaattc ccccatcctc tgggctccca cttcccaccc ctgatgcccg ggtaggggcc tccacctgcg gcccgcccga ccacctgctg cctccgctgg gcaccccgct gcccccagac tgggtgacgc tggaggggga ctttgtgctc atgttggcca tctcgcccag ccacctaggc gctgacctgg tggcagctcc gcatgcgcgc ttcgacgacg gcctggtgca cctgtgctgg gtgcgtagcg gcatctcgcg ggctgcgctg ctgccgcttt tcttggccat ggagcgtggt agccacttca gcctgggctg tccgcagctg ggctacgccg cggcccgtgc cttccgccta gagccgctca caccacgcgg cgtgctcaca gtggacgggg agcaggtgga gtatgggccg ctacaggcac agatgcaccc tggcatcggt acactgctca ctgggcctcc tggctgcccg gggcgggagc cctga
Molecular Weight	80,205 Da
OMIM	607092
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SPHK2 cdna clone	MBS1278099 is a cDNA clone targeting SPHK2.
Other Notes	Small volumes of SPHK2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

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

NCBI GI #	13544054
NCBI GeneID	56848
NCBI Accession #	BC006161
UniProt Secondary Accession #	Q9BRN1; Q9H0Q2; Q9NWU7; A0T4C8; B4DU87
UniProt Related Accession #	Q9NRA0
NCBI Official Full Name	Homo sapiens sphingosine kinase 2, mRNA

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
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; Kinase, lipid; EC 2.7.1.91 Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: cytosol; lysosomal membrane; membrane Molecular Function: D-erythro-sphingosine kinase activity; protein binding; sphinganine kinase activity Biological Process: sphingolipid biosynthetic process; sphingosine biosynthetic process
Research Articles on SPHK2	**1.** increased SK and SPL mRNA expression along with reduced sphingosine 1-phosphate levels were more commonly observed in hepatocellular carcinoma tissues.
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