SPHK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SPHK2, Polyclonal Antibody
Full Product Name	Anti-Human SPHK2 DyLight 550 conjugated Antibody
Product Gene Name	anti-SPHK2 antibody
Product Synonym Names	Rabbit IgG Polyclonal Anti-Human SPHK2 Antibody DyLight 550 Conjugated, Flow Validated; Sphingosine kinase 2; SK 2; SPK 2; Sphingosine kinase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Immunogen Affinity Purified
Specificity	No cross reactivity with other proteins.
Preparation and Storage	Store at 2-8 degree C for one year. Protect from light. Do not freeze.
Molecular Weight	65,205 Da
3D Structure	ModBase 3D Structure for Q9NRA0
Immunogen	E Coli-derived human SPHK2 recombinant protein (Position: F215-M269).
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SPHK2 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-SPHK2 antibody	FC/FACS: 1-3ug/1x106 cells
Related Product Information for anti-SPHK2 antibody	Sphingosine kinase 2 is a protein that in humans is encoded by the SPHK2 gene. 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.
Product References and Citations for anti-SPHK2 antibody	1. Hait NC, Sarkar S, Le Stunff H, Mikami A, Maceyka M, Milstien S, Spiegel S (August 2005). "Role of sphingosine kinase 2 in cell migration toward epidermal growth factor". The Journal of Biological Chemistry. 280 (33): 29462-9. 2. Liu H, Sugiura M, Nava VE, Edsall LC, Kono K, Poulton S, Milstien S, Kohama T, Spiegel S (June 2000). "Molecular cloning and functional characterization of a novel mammalian sphingosine kinase type 2 isoform". The Journal of Biological Chemistry. 275 (26): 19513-20.
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 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.
Searchable Terms for SPHK2 purchase	MBS1751342 is an antibody targeting SPHK2. Also known as Anti-Human SPHK2 DyLight 550 conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	323462183
NCBI GeneID	56848
NCBI Accession #	NP_001191087.1
UniProt Primary Accession #	Q9NRA0
UniProt Secondary Accession #	Q9BRN1; Q9H0Q2; Q9NWU7; A0T4C8; B4DU87
UniProt Related Accession #	Q9NRA0
GenBank Nucleotide #	NM_001204158.2
NCBI Official Full Name	sphingosine kinase 2 isoform b
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
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	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.
Research Articles on SPHK2	**1.** siRNA-mediated knockdown of Sphk2 but not SphK1 resulted in a reduction of cargo content in purified exosomes
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