SHC2 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	SHC2, Blocking Peptide
Full Product Name	SHC2 Peptide - middle region
Product Gene Name	SHC2 blocking peptide
Product Synonym Gene Name	SCK; SLI; SHCB
Sequence	Synthetic peptide located within the following region: LRDACSLPWD VGSTGTAPPG DGYVQADARG PPDHEEHLYV NTQGLDAPEP
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	SHC2 peptide (MBS3245714) is used for blocking the activity of SHC2 antibody (MBS3220917)
Molecular Weight	62 kDa
OMIM	605217
Product Categories/Family for SHC2 blocking peptide	Peptide
Applications Tested/Suitable for SHC2 blocking peptide	Western Blot (WB)
Related Product Information for SHC2 blocking peptide	MBS3245714 is a blocking peptide targeting SHC2. Also known as SHC2 Peptide - middle region. Reactive in Human.
Other Notes	Small volumes of SHC2 blocking peptide 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 SHC2. It may not necessarily be applicable to this product.

NCBI GI #	169790811
NCBI GeneID	25759
NCBI Accession #	NP_036567.2
UniProt Primary Accession #	P98077
UniProt Related Accession #	P98077
GenBank Nucleotide #	NM_012435.2
NCBI Official Full Name	SHC-transforming protein 2
NCBI Official Synonym Full Names	SHC adaptor protein 2
NCBI Official Symbol	SHC2
NCBI Official Synonym Symbols	SCK; SLI; SHCB

UniProt Protein Name	SHC-transforming protein 2
UniProt Synonym Protein Names	Protein Sck; SHC-transforming protein B; Src homology 2 domain-containing-transforming protein C2
Protein Family	SHC-transforming protein
UniProt Gene Name	SHC2
UniProt Synonym Gene Names	SCK; SHCB; SH2 domain protein C2
UniProt Entry Name	SHC2_HUMAN
NCBI Protein Information	SHC-transforming protein 2
UniProt Comments for SHC2	SHC2: an adapter protein containing an SH2 and a PID domain. Couples activated growth factor receptors to signaling pathway in neurons. Involved in the signal transduction pathways of neurotrophin-activated Trk receptors in cortical neurons and the regulation of NMDA receptor function in the hippocampus. May modulate hippocampal synaptic plasticity underlying learning and memory. Interacts with the Trk receptors in a phosphotyrosine-dependent manner. Once activated, binds to GRB2. Interacts with activated EGF receptors. Mainly expressed in brain. Hardly detectable in other tissues, except in pancreas. Highly expressed in the cerebral cortex, frontal and temporal lobes, occipital pole, hippocampus, caudate nucleus and amygdala. Expressed at low level in the cerebellum, medulla and spinal cord. A switch from Shc1 to Shc3 occurs during maturation of neuronal precursors to postmitotic neurons. Two alternatively spliced isoforms have been described. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: plasma membrane; cytosol Molecular Function: protein binding; receptor tyrosine kinase binding; protein kinase binding Biological Process: nerve growth factor receptor signaling pathway; activation of MAPK activity; Ras protein signal transduction; insulin receptor signaling pathway; vascular endothelial growth factor receptor signaling pathway; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on SHC2	**1.** Sck was identified as a novel molecule indispensable for CD95's activation of the PI3K and MAPK pathways and induction of cell cycle progression in pancreatic ductal adenocarcinoma.
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