Shc3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Shc3, Blocking Peptide
Full Product Name	Shc3 Blocking Peptide
Product Gene Name	Shc3 blocking peptide
Product Synonym Names	N SHC; N-Shc; Neuronal Shc; NSHC; Protein Rai; Rai; SH2 domain protein C3; SHC (Src homology 2 domain containing) transforming protein 3; SHC adaptor protein 3; SHC protein C; SHC-like protein, neuronal; SHC-transforming protein 3; SHC-transforming protein C; Shc3; Shc3 p51; SHC3_HUMAN; SHCC; Src homology 2 domain-containing transforming protein; Src homology 2 domain-containing-transforming protein C3
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Shc3 peptide (MBS9620694) is used for blocking the activity of Shc3 antibody (MBS9603217)
Molecular Weight	64,056 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (91620686..91793682, complement). Location: 9q22.1
OMIM	605263
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for Shc3 blocking peptide	Blocking/Control
Related Product Information for Shc3 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of Shc3 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.
Searchable Terms for Shc3 purchase	MBS9620694 is a blocking peptide targeting Shc3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Shc3. It may not necessarily be applicable to this product.

NCBI GI #	224586793
NCBI GeneID	53358
NCBI Accession #	NP_058544.3

UniProt Primary Accession #	Q92529
UniProt Secondary Accession #	Q5T7I7; Q8TAP2; Q9UCX5
UniProt Related Accession #	Q92529
GenBank Nucleotide #	NM_016848.5
NCBI Official Full Name	SHC-transforming protein 3
NCBI Official Synonym Full Names	SHC (Src homology 2 domain containing) transforming protein 3
NCBI Official Symbol	SHC3
NCBI Official Synonym Symbols	RAI; NSHC; SHCC; N-Shc
UniProt Protein Name	SHC-transforming protein 3
UniProt Synonym Protein Names	Neuronal Shc; N-Shc; Protein Rai; SHC-transforming protein C; Src homology 2 domain-containing-transforming protein C3
Protein Family	SHC-transforming protein
UniProt Gene Name	SHC3
UniProt Synonym Gene Names	NSHC; SHCC; N-Shc
UniProt Entry Name	SHC3_HUMAN
NCBI Protein Information	SHC-transforming protein 3; protein Rai; neuronal Shc; SH2 domain protein C3; SHC-transforming protein C; src homology 2 domain-containing transforming protein C3; src homology 2 domain-containing-transforming protein C3
UniProt Comments for Shc3	SHC3: 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; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 9q22.1 Cellular Component: plasma membrane; cytosol Molecular Function: signal transducer activity; protein binding; receptor tyrosine kinase binding; protein kinase binding Biological Process: epidermal growth factor receptor signaling pathway; synaptic transmission, glutamatergic; central nervous system development; learning and/or memory; nerve growth factor receptor signaling pathway; Ras protein signal transduction; insulin receptor signaling pathway; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on Shc3	**1.** Rai (ShcC/N-Shc), a member of the family of Shc-like adaptor proteins, as a new regulator of migration of normal and cancer stem/progenitor cells.
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