RUSC1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	RUSC1, Blocking Peptide
Full Product Name	RUSC1 Peptide - middle region
Product Gene Name	RUSC1 blocking peptide
Product Synonym Gene Name	NESCA
Sequence	Synthetic peptide located within the following region: PSWKINPIWK IDTEKTKAEW KTTENNNTGW KNNGNVNSSW KSEPEKFDSG
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	RUSC1 peptide (MBS3246876) is used for blocking the activity of RUSC1 antibody (MBS3222189)
Molecular Weight	87 kDa
Product Categories/Family for RUSC1 blocking peptide	Peptide
Related Product Information for RUSC1 blocking peptide	This is a synthetic peptide designed for use in combination with anti- RUSC1 Antibody, made Target Description: Putative signaling adapter which may play a role in neuronal differentiation. May be involved in regulation of NGF-dependent neurite outgrowth. Proposed to play a role in neuronal vesicular trafficking, specifically involving pre-synaptic membrane proteins. Seems to be involved in signaling pathways that are regulated by the prolonged activation of MAPK. Can regulate the polyubiquitination of IKBKG and thus may be involved in regulation of the NF-kappa-B pathway.
Other Notes	Small volumes of RUSC1 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 RUSC1 purchase	MBS3246876 is a blocking peptide targeting RUSC1. Also known as RUSC1 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RUSC1. It may not necessarily be applicable to this product.

NCBI GI #	157412245
NCBI GeneID	23623
NCBI Accession #	NP_001098673.1
UniProt Primary Accession #	Q9BVN2
UniProt Related Accession #	Q9BVN2
GenBank Nucleotide #	NM_001105203.1
NCBI Official Full Name	RUN and SH3 domain-containing protein 1 isoform a
NCBI Official Synonym Full Names	RUN and SH3 domain containing 1

NCBI Official Symbol	RUSC1
NCBI Official Synonym Symbols	NESCA
UniProt Protein Name	RUN and SH3 domain-containing protein 1
UniProt Synonym Protein Names	New molecule containing SH3 at the carboxy-terminus; Nesca
Protein Family	RUN and SH3 domain-containing protein
UniProt Gene Name	RUSC1
UniProt Synonym Gene Names	NESCA; Nesca
UniProt Entry Name	RUSC1_HUMAN
NCBI Protein Information	RUN and SH3 domain-containing protein 1
UniProt Comments for RUSC1	RUSC1: Putative signaling adapter which may play a role in neuronal differentiation. May be involved in regulation of NGF- dependent neurite outgrowth. Proposed to play a role in neuronal vesicular trafficking, specifically involving pre-synaptic membrane proteins. Seems to be involved in signaling pathways that are regulated by the prolonged activation of MAPK. Can regulate the polyubiquitination of IKBKG and thus may be involved in regulation of the NF-kappa-B pathway. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 1q21-q22 Cellular Component: microtubule cytoskeleton; Golgi apparatus; postsynaptic membrane; microtubule; postsynaptic density; cytoplasmic membrane-bound vesicle; early endosome; cytoplasm; cytoplasmic vesicle; cell junction; nucleus Molecular Function: protein binding; SH3/SH2 adaptor activity; actin binding Biological Process: protein polyubiquitination; positive regulation of signal transduction
Research Articles on RUSC1	**1.** AP-4 deficiency causes missorting of ATG9A in diverse cell types, including patient-derived cells, as well as dysregulation of autophagy.
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