FRS2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	FRS2, Blocking Peptide
Full Product Name	FRS2 Blocking Peptide
Product Gene Name	FRS2 blocking peptide
Product Synonym Names	FGFR signaling adaptor SNT; FGFR signalling adaptor; FGFR substrate 2; FGFR-signaling adaptor SNT; Fibroblast growth factor receptor substrate 2; FRS 2; FRS2; FRS2_HUMAN; FRS2A; FRS2alpha; SNT 1; SNT; SNT-1; SNT1; Suc 1 Associated Neurotrophic Factor Target; Suc1 associated neurotrophic factor target 1; Suc1-associated neurotrophic factor target 1
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	FRS2 peptide (MBS9617570) is used for blocking the activity of FRS2 antibody (MBS9602011)
Molecular Weight	57,029 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (69864129..69973562). Location: 12q15
OMIM	607743
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 FRS2 blocking peptide	Blocking/Control
Related Product Information for FRS2 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 FRS2 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 FRS2 purchase	MBS9617570 is a blocking peptide targeting FRS2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FRS2. It may not necessarily be applicable to this product.

NCBI GI #	110347414
NCBI GeneID	10818
NCBI Accession #	NP_001036020.1

UniProt Primary Accession #	Q8WU20
UniProt Secondary Accession #	O43558; Q7LDQ6; B0LPF2; B2R684
UniProt Related Accession #	Q8WU20
GenBank Nucleotide #	NM_001042555.2
NCBI Official Full Name	fibroblast growth factor receptor substrate 2
NCBI Official Synonym Full Names	fibroblast growth factor receptor substrate 2
NCBI Official Symbol	FRS2
NCBI Official Synonym Symbols	SNT; SNT1; FRS2A; SNT-1; FRS2alpha
UniProt Protein Name	Fibroblast growth factor receptor substrate 2
UniProt Synonym Protein Names	FGFR-signaling adaptor SNT; Suc1-associated neurotrophic factor target 1
Protein Family	Fibroblast growth factor receptor substrate
UniProt Gene Name	FRS2
UniProt Synonym Gene Names	FGFR substrate 2; SNT-1
UniProt Entry Name	FRS2_HUMAN
NCBI Protein Information	fibroblast growth factor receptor substrate 2; FGFR substrate 2; FGFR signalling adaptor; FGFR-signaling adaptor SNT; suc1-associated neurotrophic factor target 1
UniProt Comments for FRS2	FRS2: an adaptor protein involved in fibroblast growth factor receptor (FGFR) signaling. Plays an important role in linking FGFR and nerve growth factor receptors with Ras/MAPK signaling pathways. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 12q15 Cellular Component: membrane; integral to plasma membrane; plasma membrane; intercellular junction; endosome Molecular Function: protein binding; phosphatase activator activity; neurotrophin TRKA receptor binding; transmembrane receptor protein tyrosine kinase adaptor protein activity; insulin receptor binding; fibroblast growth factor receptor binding Biological Process: epidermal growth factor receptor signaling pathway; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; nerve growth factor receptor signaling pathway; activation of MAPKK activity; activation of MAPK activity; gastrulation with mouth forming second; regulation of epithelial cell proliferation; regulation of apoptosis; G-protein coupled receptor protein signaling pathway; determination of anterior/posterior axis, embryo; induction of an organ; neuroblast proliferation; forebrain development; insulin receptor signaling pathway; innate immune response; optic placode formation involved in camera-type eye; transmembrane receptor protein tyrosine phosphatase signaling pathway
Research Articles on FRS2	**1.** Data indicate that the FGFR/FRS2 signaling axis was generally activated in about 75% of FRS2-positive high-grade liposarcomas.
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