SSTR2 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	SSTR2, Blocking Peptide
Full Product Name	SSTR2 Peptide - middle region
Product Gene Name	SSTR2 blocking peptide
Sequence	RVGSSKRKKS EKKVTRMVSI VVAVFIFCWL PFYIFNVSSV SMAISPTPAL
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	SSTR2 peptide (MBS3239334) is used for blocking the activity of SSTR2 antibody (MBS3214397)
Molecular Weight	41kDa
OMIM	182452
Product Categories/Family for SSTR2 blocking peptide	Peptide
Applications Tested/Suitable for SSTR2 blocking peptide	Western Blot (WB)
Related Product Information for SSTR2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-SSTR2 Antibody, made Target Description: Somatostatin acts at many sites to inhibit the release of many hormones and other secretory proteins. The biologic effects of somatostatin are probably mediated by a family of G protein-coupled receptors that are expressed in a tissue-specific manner. SSTR2 is a member of the superfamily of receptors having seven transmembrane segments and is expressed in highest levels in cerebrum and kidney.
Other Notes	Small volumes of SSTR2 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 SSTR2 purchase	MBS3239334 is a blocking peptide targeting SSTR2. Also known as SSTR2 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SSTR2. It may not necessarily be applicable to this product.

NCBI GI #	4557859
NCBI GeneID	6752
NCBI Accession #	NP_001041
UniProt Primary Accession #	P30874
UniProt Related Accession #	P30874
GenBank Nucleotide #	NM_001050
NCBI Official Full Name	somatostatin receptor type 2
NCBI Official Synonym Full Names	somatostatin receptor 2

NCBI Official Symbol	SSTR2
UniProt Protein Name	Somatostatin receptor type 2
UniProt Synonym Protein Names	SRIF-1
Protein Family	Somatostatin receptor
UniProt Gene Name	SSTR2
UniProt Synonym Gene Names	SS-2-R; SS2-R; SS2R
UniProt Entry Name	SSR2_HUMAN
NCBI Protein Information	somatostatin receptor type 2
NCBI Summary for SSTR2	Somatostatin acts at many sites to inhibit the release of many hormones and other secretory proteins. The biologic effects of somatostatin are probably mediated by a family of G protein-coupled receptors that are expressed in a tissue-specific manner. SSTR2 is a member of the superfamily of receptors having seven transmembrane segments and is expressed in highest levels in cerebrum and kidney. [provided by RefSeq, Jul 2008]
UniProt Comments for SSTR2	SSTR2: Receptor for somatostatins-14 and -28. This receptor is coupled via pertussis toxin sensitive G proteins to inhibition of adenylyl cyclase. In addition it stimulates phosphotyrosine phosphatase and PLC via pertussis toxin insensitive as well as sensitive G proteins. In RIN-5F cells, this receptor inhibits calcium entry by suppressing voltage dependent calcium-channels. The C-terminus interacts with SHANK1 PDZ domain. Cerebrum and kidney. In lesser amounts in jejunum, colon and liver. Belongs to the G-protein coupled receptor 1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; GPCR, family 1; Membrane protein, multi-pass; Receptor, GPCR Chromosomal Location of Human Ortholog: 17q24 Cellular Component: neuron projection; integral to plasma membrane; cytoplasm; plasma membrane Molecular Function: neuropeptide binding; protein binding; somatostatin receptor activity; PDZ domain binding Biological Process: peristalsis; regulation of muscle contraction; response to starvation; synaptic transmission; negative regulation of cell proliferation; G-protein signaling, coupled to cyclic nucleotide second messenger; cell-cell signaling; neuropeptide signaling pathway; forebrain development; digestion; cerebellum development; spermatogenesis; G-protein signaling, adenylate cyclase inhibiting pathway; response to nutrient
Research Articles on SSTR2	**1.** SSTR2A expression is infrequent in astrocytomas and negative in the majority of glioblastomas where it is of no prognostic significance. In contrast, oligodendrogliomas show intense membranous and cytoplasmic SSTR2A expression.
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