SRGN Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	SRGN, Blocking Peptide
Full Product Name	SRGN Peptide - middle region
Product Gene Name	SRGN blocking peptide
Product Synonym Gene Name	FLJ12930; MGC9289; PPG; PRG; PRG1
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	SRGN peptide (MBS3230174) is used for blocking the activity of SRGN antibody (MBS3205209)
Molecular Weight	15kDa
OMIM	177040
Product Categories/Family for SRGN blocking peptide	Peptide
Applications Tested/Suitable for SRGN blocking peptide	Western Blot (WB)
Related Product Information for SRGN blocking peptide	This is a synthetic peptide designed for use in combination with anti-SRGN antibody made Target Description: SRGN is a protein best known as a hematopoietic cell granule proteoglycan. Proteoglycans stored in the secretory granules of many hematopoietic cells also contain a protease-resistant peptide core, which may be important for neutralizing hydrolytic enzymes. SRGN was found to be associated with the macromolecular complex of granzymes and perforin, which may serve as a mediator of granule-mediated apoptosis.This gene encodes a protein best known as a hematopoietic cell granule proteoglycan. Proteoglycans stored in the secretory granules of many hematopoietic cells also contain a protease-resistant peptide core, which may be important for neutralizing hydrolytic enzymes. This encoded protein was found to be associated with the macromolecular complex of granzymes and perforin, which may serve as a mediator of granule-mediated apoptosis. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Other Notes	Small volumes of SRGN 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 SRGN purchase	MBS3230174 is a blocking peptide targeting SRGN. Also known as SRGN Peptide - middle region.

ADDITIONAL DETAILS

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

NCBI GI #	45935371
NCBI GeneID	5552
NCBI Accession #	NP_002718
UniProt Primary Accession #	P10124
UniProt Related Accession #	P10124
GenBank Nucleotide #	NM_002727

NCBI Official Full Name	serglycin isoform 1
NCBI Official Synonym Full Names	serglycin
NCBI Official Symbol	SRGN
NCBI Official Synonym Symbols	PPG; PRG; PRG1
UniProt Protein Name	Serglycin
UniProt Synonym Protein Names	Hematopoietic proteoglycan core protein; Platelet proteoglycan core protein; P.PG; Secretory granule proteoglycan core protein
Protein Family	Serglycin
UniProt Gene Name	SRGN
UniProt Synonym Gene Names	PRG; PRG1; P.PG
UniProt Entry Name	SRGN_HUMAN
NCBI Protein Information	serglycin
NCBI Summary for SRGN	This gene encodes a protein best known as a hematopoietic cell granule proteoglycan. Proteoglycans stored in the secretory granules of many hematopoietic cells also contain a protease-resistant peptide core, which may be important for neutralizing hydrolytic enzymes. This encoded protein was found to be associated with the macromolecular complex of granzymes and perforin, which may serve as a mediator of granule-mediated apoptosis. Two transcript variants, only one of them protein-coding, have been found for this gene. [provided by RefSeq, Jul 2010]
UniProt Comments for SRGN	SRGN: Plays a role in formation of mast cell secretory granules and mediates storage of various compounds in secretory vesicles. Required for storage of some proteases in both connective tissue and mucosal mast cells and for storage of granzyme B in T-lymphocytes. Plays a role in localizing neutrophil elastase in azurophil granules of neutrophils. Mediates processing of MMP2. Plays a role in cytotoxic cell granule-mediated apoptosis by forming a complex with granzyme B which is delivered to cells by perforin to induce apoptosis. Regulates the secretion of TNF- alpha and may also regulate protease secretion. Inhibits bone mineralization. Belongs to the serglycin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 10q22.1 Cellular Component: extracellular region; extracellular space; Golgi apparatus; mast cell granule Molecular Function: protein binding Biological Process: induction of apoptosis by granzyme; maintenance of granzyme B localization in T cell secretory granule; maintenance of protease localization in mast cell secretory granule; mast cell secretory granule organization and biogenesis; negative regulation of bone mineralization; negative regulation of cytokine secretion; platelet degranulation; protease localization in mast cell secretory granule; protein processing; T cell secretory granule organization and biogenesis
Research Articles on SRGN	**1.** SRGN overexpression promoted colorectal cancer cell migration and invasion and SRGN was physically binding to a hypoxia response element in its promoter region.
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