SRGN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SRGN, Polyclonal Antibody
Full Product Name	SRGN Rabbit pAb
Product Gene Name	anti-SRGN antibody
Product Synonym Names	PPG; PRG; PRG1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	17kDa
OMIM	177040
3D Structure	ModBase 3D Structure for P10124
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 28-158 of human SRGN (NP_002718.2).
Cellular Localization	Golgi Apparatus, Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SRGN antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-SRGN antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:100
Related Product Information for anti-SRGN antibody	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.
Other Notes	Small volumes of anti-SRGN antibody 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	MBS8546463 is an antibody targeting SRGN. Also known as SRGN Rabbit pAb. Reactive in Human. Host: Rabbit.

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_002718.2
UniProt Primary Accession #	P10124
UniProt Related Accession #	P10124
GenBank Nucleotide #	NP_002718.2
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.** Results show that serglycin associates with an aggressive mesenchymal phenotype in breast cancer cells that is accompanied by increased proteolytic potential, drug resistance and inflammatory response. IL-8 is highlighted as a key inflammatory mediator interconnected with serglycin in breast cancer cells that evokes an invasive phenotype via activation of various downstream signaling pathways.

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