

SRGN Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12292b**Specification**

SRGN Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P10124](#)**SRGN Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 5552**Other Names**

Serglycin, Hematopoietic proteoglycan core protein, Platelet proteoglycan core protein, PPG, Secretory granule proteoglycan core protein, SRGN, PRG, PRG1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SRGN Antibody (C-term) Blocking peptide - Protein Information**Name** SRGN**Synonyms** PRG, PRG1**Function**

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.

Cellular Location

Cytoplasmic granule. Cytolytic granule. Secreted, extracellular space. Golgi apparatus
Note=Found in mast cell granules and in cytoplasmic granules of cytolytic T lymphocytes from where it is secreted upon cell activation (By similarity). Secreted constitutively by endothelial cells and macrophages (PubMed:11154222). Located to Golgi apparatus during neutrophil differentiation (PubMed:15136585) {ECO:0000250|UniProtKB:P13609, ECO:0000269|PubMed:11154222, ECO:0000269|PubMed:15136585}

SRGN Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SRGN Antibody (C-term) Blocking peptide - Images

SRGN Antibody (C-term) Blocking peptide - Background

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].

SRGN Antibody (C-term) Blocking peptide - References

Ma, D., et al. *Pediatr Blood Cancer* 50(5):1067-1069(2008) Kolset, S.O., et al. *Glycoconj. J.* 25(4):305-311(2008) Theocharis, A.D., et al. *J. Biol. Chem.* 281(46):35116-35128(2006) Wang, A.G., et al. *Biochem. Biophys. Res. Commun.* 345(3):1022-1032(2006) Raja, S.M., et al. *J. Biol. Chem.* 280(21):20752-20761(2005)