

SLPI Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17015c**Specification**

SLPI Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P03973](#)**SLPI Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 6590**Other Names**

Antileukoproteinase, ALP, BLPI, HUSI-1, Mucus proteinase inhibitor, MPI, Protease inhibitor WAP4, Secretory leukocyte protease inhibitor, Seminal proteinase inhibitor, WAP four-disulfide core domain protein 4, SLPI, WAP4, WFDC4

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.

SLPI Antibody (Center) Blocking Peptide - Protein Information**Name** SLPI**Synonyms** WAP4, WFDC4**Function**

Acid-stable proteinase inhibitor with strong affinities for trypsin, chymotrypsin, elastase, and cathepsin G (PubMed: [3533531](http://www.uniprot.org/citations/3533531), PubMed: [3462719](http://www.uniprot.org/citations/3462719), PubMed: [2039600](http://www.uniprot.org/citations/2039600), PubMed: [2110563](http://www.uniprot.org/citations/2110563), PubMed: [10702419](http://www.uniprot.org/citations/10702419), PubMed: [24121345](http://www.uniprot.org/citations/24121345)). Modulates the inflammatory and immune responses after bacterial infection, and after infection by the intracellular parasite *L.major*. Down-regulates responses to bacterial lipopolysaccharide (LPS) (By similarity). Plays a role in regulating the activation of NF-kappa- B and inflammatory responses (PubMed: [10702419](http://www.uniprot.org/citations/10702419), PubMed: [24352879](http://www.uniprot.org/citations/24352879)). Has antimicrobial activity against mycobacteria, but not against salmonella. Contributes to normal

resistance against infection by M.tuberculosis. Required for normal resistance to infection by L.major. Required for normal wound healing, probably by preventing tissue damage by limiting protease activity (By similarity). Together with ELANE, required for normal differentiation and proliferation of bone marrow myeloid cells (PubMed:24352879).

Cellular Location

Secreted

Tissue Location

Detected in blood plasma (PubMed:24352879). Detected in bone marrow myeloid cells (PubMed:24352879). Detected in airway sputum (PubMed:2039600). Detected in parotid gland secretions (PubMed:3462719). Detected in seminal plasma (at protein level) (PubMed:3485543). Detected in uterus cervix (PubMed:3533531)

SLPI Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLPI Antibody (Center) Blocking Peptide - Images**SLPI Antibody (Center) Blocking Peptide - Background**

This gene encodes a secreted inhibitor which protectsepithelial tissues from serine proteases. It is found in variousecretions including seminal plasma, cervical mucus, and bronchialsecretions, and has affinity for trypsin, leukocyte elastase, andcathepsin G. Its inhibitory effect contributes to the immuneresponse by protecting epithelial surfaces from attack byendogenous proteolytic enzymes; the protein is also thought to havebroad-spectrum anti-biotic activity.

SLPI Antibody (Center) Blocking Peptide - References

Chotirmall, S.H., et al. Am. J. Respir. Crit. Care Med. 182(1):62-72(2010)Rasool, N., et al. Clin. Cancer Res. 16(2):600-609(2010)Ghasemlou, N., et al. Brain 133 (PT 1), 126-138 (2010) :Taggart, C.C., et al. J. Biol. Chem. 276(36):33345-33352(2001)Ohlsson, K., et al. J. Androl. 16(1):64-74(1995)