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CAMP Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16981b

Specification

CAMP Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P49913

CAMP Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 820

Other Names
Cathelicidin antimicrobial peptide, 18 kDa cationic antimicrobial protein, CAP-18, hCAP-18, Antibacterial protein FALL-39, FALL-39 peptide antibiotic, Antibacterial protein LL-37, CAMP, CAP18, FALL39

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.

CAMP Antibody (C-term) Blocking Peptide - Protein Information

Name CAMP (HGNC:1472)

Function
Antimicrobial protein that is an integral component of the innate immune system (PubMed:14978112, PubMed:16637646, PubMed:18818205, PubMed:22879591, PubMed:9736536). Binds to bacterial lipopolysaccharides (LPS) (PubMed:16637646, PubMed:18818205). Acts via neutrophil N-formyl peptide receptors to enhance the release of CXCL2 (PubMed:22879591). Postsecretory processing generates multiple cathelicidin antimicrobial peptides with various lengths which act as a topical antimicrobial defense in sweat on skin (PubMed:14978112). The unprocessed precursor form, cathelicidin antimicrobial peptide, inhibits the growth of Gram-negative E.coli and E.aerogenes with efficiencies comparable to that of the mature peptide LL-37 (in vitro) (PubMed:<a

href="http://www.uniprot.org/citations/9736536" target="_blank">9736536).

Cellular Location
Secreted. Vesicle. Note=Stored as pro-peptide in granules and phagolysosomes of neutrophils (PubMed:7529412, PubMed:9736536). Secreted in sweat onto skin (PubMed:14978112).

Tissue Location
Expressed in neutrophilic granulocytes (at protein level) (PubMed:7529412, PubMed:7615076, PubMed:7890387, PubMed:8681941, PubMed:8946956, PubMed:9736536). Expressed in bone marrow (PubMed:7890387). [Antibacterial peptide FALL-39]: Expressed in bone marrow and testis.

CAMP Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CAMP Antibody (C-term) Blocking Peptide - Images

CAMP Antibody (C-term) Blocking Peptide - Background

Cathelicidin antimicrobial protein is an antimicrobialprotein found in specific granules of polymorphonuclear leukocytes(PMNs).

CAMP Antibody (C-term) Blocking Peptide - References

van der Does, A.M., et al. J. Immunol. 185(3):1442-1449(2010)Jiang, Y., et al. Respirology 15(6):939-946(2010)Goo, J., et al. Pediatr Dermatol 27(4):341-348(2010)Kai-Larsen, Y., et al. PLoS Pathog. 6 (7), E1001010 (2010) :Pistolic, J., et al. J Innate Immun 1(3):254-267(2009)

CAMP Antibody (C-term) Blocking Peptide - Citations

- Identifying the Critical Domain of LL-37 Involved in Mediating Neutrophil Activation in the Presence of Influenza Virus: Functional and Structural Analysis.