10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CAMP Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16981b

Product Information

Application	WB, E
Primary Accession	P49913
Other Accession	NP_004336.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36670
Calculated MW	19301
Antigen Region	123-152

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
Target/Specificity	This CAMP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 123-152 amino acids from the C-terminal region of human CAMP.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CAMP Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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: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.

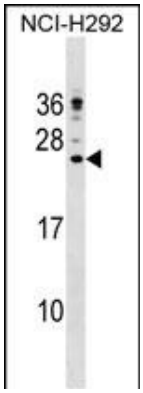
Background

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

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)

Images



CAMP Antibody (C-term) (Cat. #AP16981b) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the CAMP antibody detected the CAMP protein (arrow).

Citations

- LL-37 modulates human neutrophil responses to influenza A virus.
- The human cathelicidin LL-37 inhibits influenza A viruses through a mechanism distinct from that of surfactant protein D or defensins.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.