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LL37 / Cathelicidin Antibody (C-Terminus)

Rabbit Polyclonal Antibody
Catalog # ALS12388

Specification

LL37 / Cathelicidin Antibody (C-Terminus) - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	P49913
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**19kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **IF~~1:50~200** **E~~N/A**

LL37 / Cathelicidin Antibody (C-Terminus) - 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

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
LL37 / Cathelicidin Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

LL37 / Cathelicidin Antibody (C-Terminus) - 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:<a href="http://www.uniprot.org/citations/22879591"

target="_blank">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).

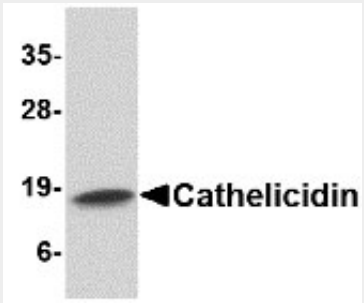
Tissue Location
Expressed in neutrophilic granulocytes (at protein level) (PubMed:7529412, PubMed:7615076, PubMed:7890387, PubMed:8681941, PubMed:8946956, PubMed:9736536). Expressed in bone marrow (PubMed:7890387). [Antibacterial peptide FALL-39]: Expressed in bone marrow and testis.

LL37 / Cathelicidin Antibody (C-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LL37 / Cathelicidin Antibody (C-Terminus) - Images



Western blot of Cathelicidin in Human spleen tissue lysate with Cathelicidin antibody at 1 ug/ml.

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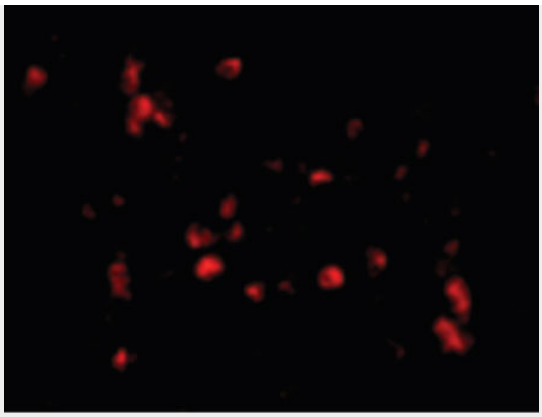

Immunofluorescence of Cathelicidin in Human Spleen cells with Cathelicidin antibody at 20 ug/ml.

LL37 / Cathelicidin Antibody (C-Terminus) - Background

Binds to bacterial lipopolysaccharides (LPS), has antibacterial activity.

LL37 / Cathelicidin Antibody (C-Terminus) - References

Agerberth B.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:195-199(1995).
Cowland J.B.,et al.FEBS Lett. 368:173-176(1995).
Larrick J.W.,et al.Infect. Immun. 63:1291-1297(1995).
Larrick J.W.,et al.FEBS Lett. 398:74-80(1996).
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