



Rabbit Anti-Cathelicidin antibody

SL6433R

Product Name:	Cathelicidin
Chinese Name:	抗菌肽CAMP/LL-37抗菌蛋白抗体
Alias:	18 kDa cationic antimicrobial protein; Antibacterial protein FALL-39; Antibacterial protein LL-37; CAMP; CAMP_HUMAN; CAP 18; CAP-18; CAP18; cathelicidin antimicrobial peptide; Cathelicidin antimicrobial peptide precursor; Cathelin-like protein; Cathelin-related antimicrobial peptide; CATHL3; Cationic antimicrobial protein CAP 18; Cationic antimicrobial protein, 18-KD; CLP; Cnlp; Cramp; CRAMP, mouse, homolog of; FALL 39; FALL 39 peptide antibiotic; FALL-39 peptide antibiotic; FALL39; hCAP 18; hCAP-18; hCAP18; HSD26; LL 37; LL37; MCLP; mcramp; Peptide antibiotic, PR-39, porcine, homolog of; SOB3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	19kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cathelicidin:101-170/170
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Cathelicidins are a family of antimicrobial proteins found in the peroxidase-negative granules of neutrophils. Along with the family of proteins known as defensins, cathelicidins participate in the first line of defense by preventing local infection and systemic invasion of microbes. FALL-39 precursor (FALL-39 peptide antibiotic, cationic anti-microbial protein, CAMP, CAP-18, HSD26) is a cathelicidin anti-microbial protein that contains the antibacterial peptide LL-37 (amino acids 134-170). In contrast to the defensins, which are cysteine-rich peptides that fold in β -pleated sheets, LL-37 is a cysteine-free peptide that can adopt an amphipathic α -helical conformation. LL-37 binds to bacterial lipopolysaccharides (LPS) and is a potent chemotactic factor for recruiting mast cells to sites of inflammation. LL-37 is present in inflammatory skin diseases that include psoriasis, sub-acute lupus erythematosus, dermatitis and nickel contact hypersensitivity. It is not found in normal skin epidermis. The secreted protein is expressed primarily in bone marrow, testis and neutrophils. The mouse and rat ortholog, CRAMP (cathelin-related antimicrobial peptide), is also part of the cathelicidin family of host defense peptides. These include precursors of potent antimicrobial peptides that direct antimicrobial activity against various microbial pathogens and also activate mesenchymal cells during wound repair. CRAMP is expressed in testis, spleen, stomach and intestine.

Function:

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

Subcellular Location:

Secreted.

Tissue Specificity:

Expressed in bone marrow and testis and neutrophils.

Post-translational modifications:

The N-terminus is blocked.

Similarity:

Belongs to the cathelicidin family.

SWISS:

P49913

Gene ID:

820

Database links:

[Entrez Gene: 820](#)Human

[Omim: 600474](#)Human

[SwissProt: P49913](#)Human

Product Detail:

[Unigene: 51120](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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