Data Sheet (Cat.No.TMAB-00296)

Anti-Cathelicidin/Camp Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	(predicted:Mouse,Rat)
Molecular Weight:	Theoretical: 19 kDa.
Purification:	Protein A purified

Applications

Application:	ELISA,ICC/IF,IF,IHC-Fr,IHC-P
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-500; IF: 1:100-500; ELISA: 1:5000-10000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: mouse Camp
Antigen Species:	Mouse
Gene ID:	12796
Uniprot ID:	P51437
Synonyms:	Antibacterial peptide LL-29;hCAP-18;Antibacterial peptide RK-31;LL37;Antibacterial peptide KS-30;Antibacterial peptide FALL-39;Antibacterial peptide LL-37;Cathelicidin antimicrobial peptide;CAMP;8 kDa cationic antimicrobial protein;CAP-18;LL 37;CAP18;Antibacterial peptide LL-23;Antibacterial peptide FF-33;;HSD26;FALL39;FALL-39 peptide antibiotic;CRAMP; Antibacterial peptide KR-20
Biology Area:	cAMP

Research Background

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 ∫-pleated sheets, LL-37 is a cysteine-free peptide that can adopt an amphipathic å-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 erthematosus, 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.

This gene encodes a member of an antimicrobial peptide family, characterized by a highly conserved N-terminal signal peptide containing a cathelin domain and a structurally variable cationic antimicrobial peptide, which is produced by extracellular proteolysis from the C-terminus. The protein plays an important role in innate immunity defense against viruses. In addition to its antibacterial, antifungal, and antiviral activities, the encoded protein functions in cell chemotaxis, immune mediator induction, and inflammatory response regulation. [provided by RefSeq, Sep 2021]

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