

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CAMP/LL37/FALL39 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CAMP/LL37/FALL39 Leu134-Ser170 Accession # P49913
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### BACKGROUND

CAMP (Cathelicidin AntiMicrobial Peptide; also 18 kDa cationic antimicrobial protein, CAP18, LL37, FALL39 and HSD26) is a member of the cathelicidin family of proteins. It is widely expressed, being found associated with neutrophils, bronchial epithelium, renal tubule epithelium, activated keratinocytes, γδ T cells, monocytes, NK cells, colonic epithelium and the stratum basale of nonkeratinized epithelium found in the vagina and oral cavity. CAMP has marked antimicrobial activity against both Gm+ and Gm- bacteria, and acts as a chemoattractant for neutrophils, monocytes and mast cells. CAMP is synthesized as 170 amino acid (aa) prepropeptide. It contains a 30 aa signal sequence, a 103 aa, 14 kDa prosegment (aa 31-131), and a 4-5 kDa, 37 aa (aa 134-170) C-terminal mature fragment (LL37) or 39 aa (aa 132-170) C-terminal mature fragment (FALL39). In neutrophils, the 18-19 kDa propeptide is stored in granules, where, upon activation, it is enzymatically cleaved and released. While both the prosegment and C-terminal fragments possess antimicrobial activity, the prosegment also shows antiprotease activity, while the C-terminal fragment also shows chemotactic activity. The prosegment may form homodimers, while the C-terminal fragment (LL37) is reported to form homotetramers. Over aa 141-170, human CAMP shares only 50% and 57% aa sequence identity with mouse and rat CAMP, respectively.

#### PRODUCT SPECIFIC NOTICES

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