**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, cathelicidin anti-microbial protein, CAMP; CAP-18, HS26) is a cathelicidin anti-microbial peptide 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-sheet forms, 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.

**CHROMOSOMAL LOCATION**

Genetic locus: Camp (mouse) mapping to 9 F2.

**SOURCE**

CAP-18 (G-1) is a mouse monoclonal antibody raised against amino acids 6-175 mapping at the C-terminus of CAP-18 of rat origin.

**PRODUCT**

Each vial contains 200 μg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CAP-18 (G-1) is available conjugated to agarose (sc-166055 AC), 500 μg/0.25 ml agarose in 1 ml for IP; to HRP (sc-166055 HRP), 200 μg/ml for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166055 PE), fluorescein (sc-166055 FITC), Alexa Fluor® 488 (sc-166055 AF488), Alexa Fluor® 546 (sc-166055 AF546), Alexa Fluor® 594 (sc-166055 AF594) or Alexa Fluor® 647 (sc-166055 AF647), 200 μg/ml for WB, IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166055 AF680) or Alexa Fluor® 790 (sc-166055 AF790), 200 μg/ml for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

CAP-18 (G-1) is recommended for detection of CAP-18 of mouse and rat origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30:1:3000).

Suitable for use as control antibody for CAMP siRNA (m): sc-45283, CAMP shRNA Plasmid (m): sc-45283-SH and CAMP shRNA (m) Lentiviral Particles: sc-45283-V.

Molecular Weight of CAP-18: 20 kDa.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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