Datasheet for 600-401-AE6

Cathelicidin Antibody

Overview

Description:	Anti-Cathelicidin (RABBIT) Antibody - 600-401-AE6
Item No.:	600-401-AE6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	One component of host defense at mucosal surfaces is epithelial-derived antimicrobial peptides. Cathelicidins are one family of antimicrobial peptides characterized by conserved pro-peptide sequences that have been identified in epithelial tissues and some myeloid cells of humans and animals. LL-37/hCAP-18 is the only Cathelicidin found in humans and is expressed in inflammatory and epithelial cells. The presence of these molecules is essential for defense against invasive bacterial infection in skin. Besides their direct antimicrobial function, Cathelicidins have multiple roles in mediating innate and adaptive immunity, such as endotoxin neutralizing, angiogenesis, wound healing and promoting neutrophil chemotaxis and mast cell recruitment. Finally, Cathelicidin antimicrobial peptides qualify as prototypes of innovative drugs that may be used to treat infection and/or modulate the immune response.
Synonyms:	Cathelicidin Antibody, LL37, CAP18, CRAMP, HSD26, CAP-18, FALL39, FALL-39, Cathelicidin antimicrobial peptide, 18 kDa cationic antimicrobial protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CAMP
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Cathelicidin antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the C-terminus of the human Cathelicidin.
Purity/Specificity:	Anti-Cathelicidin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Cathelicidin from other sources has not been determined.
Relevant Links:	• UniProtKB - P49913 • GeneID - 820 • NCBI - NP_004336

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Cathelicidin Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 19 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1 µg/mL

Formulation

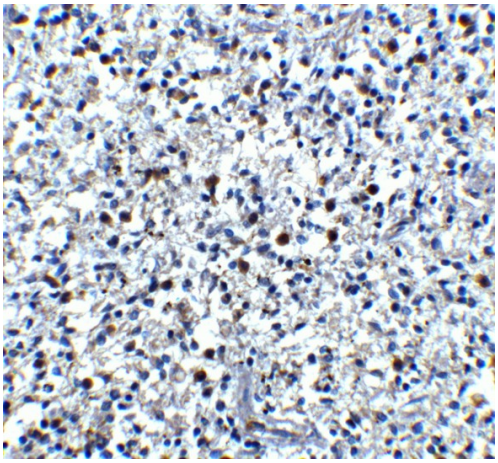
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

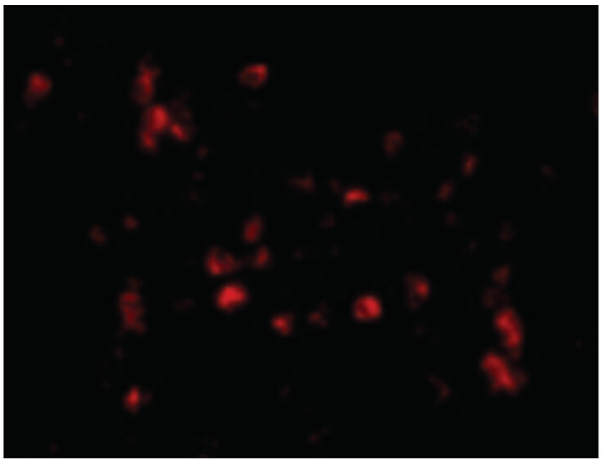
Shipping Condition:	Wet Ice

Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

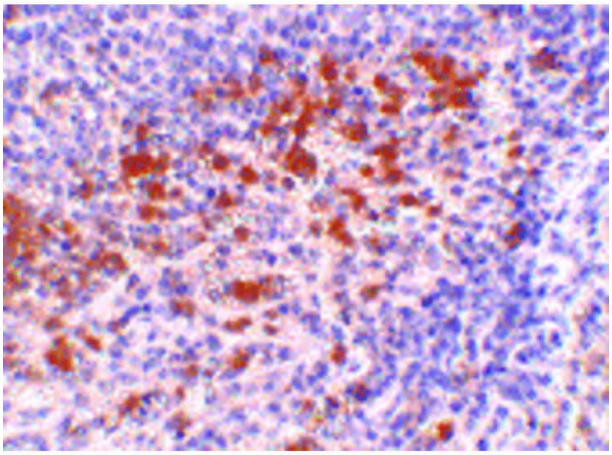
Images



Immunohistochemistry
Immunohistochemistry of Cathelicidin in human spleen tissue with Cathelicidin antibody at 5 µg/ml.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Cathelicidin antibody. Tissue: Human spleen cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Cathelicidin antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Cathelicidin as a red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of Cathelicidin antibody. Tissue: Human spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Cathelicidin antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Cathelicidin is nuclear and occasionally cytoplasmic. Staining: Cathelicidin as a precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of Cathelicidin antibody. Lane 1: Human spleen tissue lysate. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 19.3 kDa, ~19 kDa for Cathelicidin.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.