

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	CRAMP, Mouse, clone JF4-AD2		
Catalog number	HM1126-20UG		
Lot number	-	Expiry date	-
Volume	200 µl	Amount	20 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Concentration	100 µg/ml
Host Species	Mouse IgG1	Conjugate	None
Endotoxin	N.A.	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes						•		
No					•			•
N.D.	•	•	•	•			•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IA: Antibody clone JF4-AD2 used as capture and detection antibody.

General Information

Description	The monoclonal antibody JF4-AD2 recognizes the mouse protein Cathelin-Related AntiMicrobial Peptide (Cramp). Cathelicidins are a family of antimicrobial proteins predominantly found in the peroxidase-negative granules of neutrophils. the cathelicidins are synthesized as preproteins. Within the neutrophils, they are stored in granules as inactive proforms after removal of the signal peptide. The biologic active domains of the cathelicidins reside in the C-terminus. The C-terminal antimicrobial peptides are activated when cleaved from the proforms of the cathelicidins by serine proteases from azurophilic granules. Cramp (Cathelin-Related Anti-Microbial Peptide) is the mouse analogue of human LL-37 peptide, which is the antibacterial C-terminus of hCAP-18 (human cathelicidin). CRAMP forms an amphipathic α -helix similar to other antimicrobial peptides. Cramp is a potent antibiotic against Gram-negative bacteria by inhibiting growth of a variety of bacterial strains and by permeabilizing the inner membrane of E.coli directly. Abundant expression of Cramp is found in myeloid precursors and neutrophils. Cramp represents the first antibiotic peptide found in cells of myeloid lineage in the mouse. Inflammatory cells in the mouse can thus use a non-oxidative mechanism for microbial killing.		
Immunogen	Full length mouse CRAMP peptide.		
Aliases	Cathelicidin antimicrobial peptide, Cathelin-like protein, CLP		
Gene	Gene name: Camp, Cnlp, Cramp	Entrez Gene ID: 12796	Uniprot: P51437
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.		
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.		

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Brenda Teunissen

Date
13/11/2020

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.