

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Dermcidin, Human, clone G-81		
Catalog number	HM2040-200UG		
Lot number	-	Expiry date	-
Volume	-	Amount	~200 µg
Formulation	Culture medium+0.02%NaN3	Concentration	>200 µg/ml
Host Species	Mouse IgM	Conjugate	None
Endotoxin	N.A.	Purification	N.A.
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.

- W: monoclonal antibody reacts strongly to a 7 kDa band and faintly to 20, 27 and 33 kDa bands of sweat protein.

General Information

Description	The monoclonal antibody G-81 recognizes a fragment of human dermcidin (DCD). The antibiotic peptide dermcidin (110 amino acids) is specifically and constitutively expressed in the sweat glands. DCD is localized to the dark mucous cells of normal eccrine sweat glands. DCD is normally expressed in eccrine sweat glands and is expressed in cutaneous mixed tumours. DCD-immunopositive cells are expressed in the inner cells of the tubular and ductal structures. The monoclonal antibody G-81 was produced against a sweat-specific antigen. It reacts to sweat but not to other body fluids (e.g. serum, saliva, semen, milk, urine and tears) in ELISA. The N-terminal amino acid sequence (18 amino acids residues) is identical to a part of human cachexia-associated protein and of a survival-promoting peptide for neuronal cells. Besides this, the sequence is identical to the C-terminal peptide (amino acids 62-79) of DCD. The monoclonal antibody G81 can be used as a specific marker for eccrine glands in the human skin. The monoclonal antibody G-81 is useful as a immunohistochemical tool to find the tumour cells that differentiate towards eccrine secretory cells in cutaneous mixed tumours. Furthermore, the antibody can be used for the detection of biochemical and histochemical changes of the sweat gland in the healing process of wound.
Immunogen	Fractionated sweat peptides in complete Freund's adjuvant.
Aliases	AIDD, PIF, DSEP, HCAP, DCD-1, DCD
References	<ol style="list-style-type: none"> 1. Sagawa, K et al; Production and characterization of a monoclonal antibody for sweat-specific protein and its application for sweat identification. <i>Int J Legal Med</i> 2003, <i>117</i>: 90 2. Minami, Y et al; Immunohistochemical staining of cutaneous tumours with G-81, a monoclonal antibody to dermcidin. <i>Br J Dermatol</i> 2004, <i>151</i>: 165
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
29/11/2019

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