

**DCD Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6718b****Specification**

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**DCD Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P81605](#)**DCD Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 117159**Other Names**

Dermcidin, 34--, Preproteolysin, Survival-promoting peptide, DCD-1, DCD, AIDD, DSEP

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6718b](/products/AP6718b) was selected from the C-term region of human DCD. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DCD Antibody (C-term) Blocking Peptide - Protein Information****Name** DCD ([HGNC:14669](#))**Function**

[DCD-1]: Found in sweat, has an antimicrobial activity during early bacterial colonization (PubMed: [11694882](http://www.uniprot.org/citations/11694882), PubMed: [23426625](http://www.uniprot.org/citations/23426625)). The secreted peptide assembles into homohexameric complexes that can associate with and also insert into pathogen membranes (PubMed: [23426625](http://www.uniprot.org/citations/23426625)). Once inserted in bacteria membranes forms anion channels probably altering the transmembrane potential essential for bacterial survival (PubMed: [23426625](http://www.uniprot.org/citations/23426625)). Highly effective against E.coli, E.faecalis, S.aureus and C.albicans (PubMed: [11694882](http://www.uniprot.org/citations/11694882)). Optimal pH and salt concentration resemble the conditions in sweat (PubMed: [11694882](http://www.uniprot.org/citations/11694882)). Also exhibits

proteolytic activity, cleaving on the C-terminal side of Arg and, to a lesser extent, Lys residues (PubMed:<a href="http://www.uniprot.org/citations/17448443" target="\_blank">17448443</a>).

**Cellular Location**

Secreted [DCD-1]: Secreted. Membrane; Peripheral membrane protein. Membrane; Single-pass membrane protein. Note=The secreted peptide assembles into homohexameric complexes that can probably associate with pathogen membranes and also insert into these membranes where they behave as channels.

**Tissue Location**

Detected in urine (at protein level) (PubMed:25326458, PubMed:36213313, PubMed:37453717). Constitutively expressed in eccrine sweat gland cells (at protein level). Secreted into the sweat at a concentration of 1-10 micrograms/ml

**DCD Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**DCD Antibody (C-term) Blocking Peptide - Images****DCD Antibody (C-term) Blocking Peptide - Background**

DCD is a secreted protein that is subsequently processed into mature peptides of distinct biological activities. The C-terminal peptide is constitutively expressed in sweat and has antibacterial and antifungal activities. The N-terminal peptide, also known as diffusible survival evasion peptide, promotes neural cell survival under conditions of severe oxidative stress. A glycosylated form of the N-terminal peptide may be associated with cachexia (muscle wasting) in cancer patients.

**DCD Antibody (C-term) Blocking Peptide - References**

Todorov,P.T., J. Biol. Chem. 272 (19), 12279-12288 (1997)