

# Human Proteolysis Inducing Factor/Dermcidin (PIF/DCD) ELISA Kit



Catalog No: #EK11624

Orders: order@signalwayantibody.com

Package Size: #EK11624-1 48T #EK11624-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Proteolysis Inducing Factor/Dermcidin (PIF/DCD) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AIDD; DCD-1; DSEP; HCAP; MGC71930; PIF; diffusible survival/evasion peptide preproteolysin proteolysis inducing factor survival promoting peptide
Accession No.	P81605
Uniprot	P81605
GeneID	117159;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:0.78-50 ng/mL

Sensitivity:0.31 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate DCD in samples. An antibody specific for DCD has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDCD present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DCD is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of DCD bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Dermcidin 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.High performance liquid chromatography, mass spectrometry, and microsequence analysis of sweat showed a processed 47-amino acid DCD peptide with a calculated mass of 4.7 kD, compared with the expected 9.3 kD of full-length DCD without the signal peptide.DCD expression in skin, melanocytic nevus, and cutaneous melanoma tissue, but not in any other organ systems tested.

---

Note: This product is for in vitro research use only