

## Human Desmogleins 1 (DSG1) ELISA Kit

Catalog No: #EK10528



Package Size: #EK10528-1 48T #EK10528-2 96T

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## Description

Product Name	Human Desmogleins 1 (DSG1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CDHF4; DG1; DSG; PPKS1; SPPK1; desmosomal glycoprotein 1 pemphigus foliaceus antigen
Accession No.	Q02413
Uniprot	Q02413
GeneID	1828;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.61 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 DSG1 in samples. An antibody specific for DSG1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDSG1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DSG1 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 DSG1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Desmoglein 1 is a calcium-binding transmembrane glycoprotein component of desmosomes in vertebrate epithelial cells. Currently, four desmoglein subfamily members have been identified and all are members of the cadherin cell adhesion molecule superfamily. These desmoglein gene family members are located in a cluster on chromosome 18. The protein encoded by this gene has been identified as the autoantigen of the autoimmune skin blistering disease pemphigus foliaceus.From restriction enzyme analysis, they showed that the order of the DSG genes and their orientation is as follows: 5-prime--DSG1--DSG3--DSG2--3-prime. The desmoglein isoforms are expressed in a stratification-related manner in human epidermis, DSG1 being suprabasally expressed and DSG3 at a lower level, while DSG2 expression is weak and basal.

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Note: This product is for in vitro research use only