

Datasheet for ABIN7274500

Desmoglein 2 Protein (DSG2) (AA 50-609) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Desmoglein 2 (DSG2)
Protein Characteristics:	AA 50-609
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Desmoglein 2 protein is labelled with His tag.

Product Details

Purpose:	Human DSG-2/Desmoglein-2 Protein
Sequence:	Ala50-Gly609
Characteristics:	Recombinant Human DSG-2/Desmoglein-2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala50-Gly609.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human DSG-2, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-DSG-2 Antibody, hFc Tag with the EC50 of 0.17ug/ml determined by ELISA. See testing image for detail.

Target Details

Target:	Desmoglein 2 (DSG2)
Alternative Name:	DSG-2 (DSG2 Products)
Background:	Desmoglein-2 (DSG-2) as the primary high-affinity receptor used by adenoviruses Ad3, Ad7, Ad11 and Ad14. These serotypes represent key human pathogens causing respiratory and urinary tract infections. In epithelial cells, adenovirus binding of DSG-2 triggers events reminiscent of epithelial-to-mesenchymal transition, leading to transient opening of intercellular junctions.
Molecular Weight:	63.6 kDa. Due to glycosylation, the protein migrates to 75-80 kDa based on Tris-Bis PAGE result.
UniProt:	Q14126
Pathways:	Cell-Cell Junction Organization

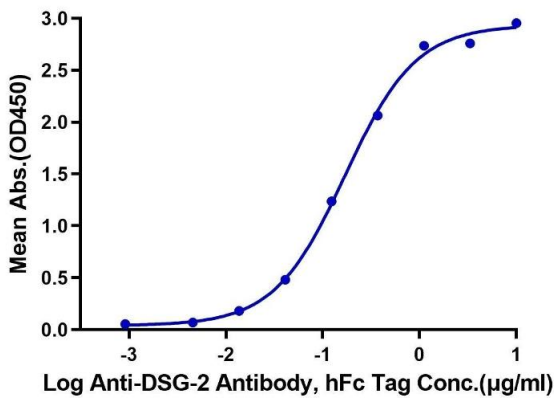
Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

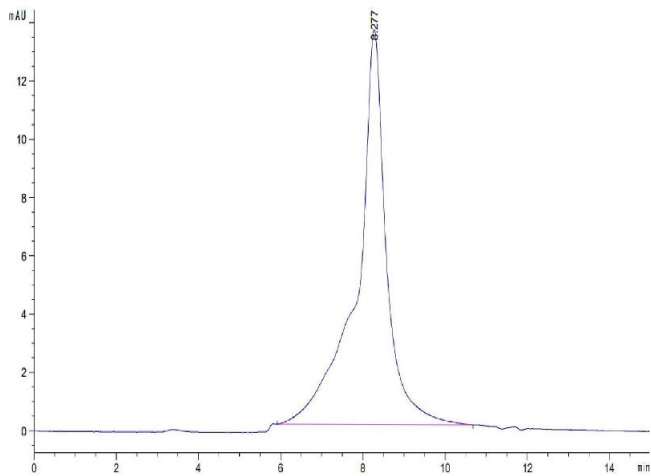
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Human DSG-2, His Tag ELISA
0.05µg Human DSG-2, His Tag Per Well



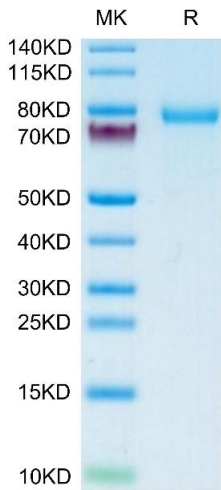
ELISA

Image 1. Immobilized Human DSG-2, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-DSG-2 Antibody, hFc Tag with the EC50 of 0.17 µg/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human DSG-2 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human DSG-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .