For Research Use Only

DSG1 Recombinant antibody

Catalog Number:84053-6-RR

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Basic Information

Catalog Number:
84053-6-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG20184

GenBank Accession Number:
BC153001

GeneID (NCBI):
1828

UNIPROT ID:
Q02413

Full Name:
desmoglein 1

Calculated MW:
1049 aa, 114 kDa

Observed MW:
160 kDa

Purification Method:
Protein A purfication

CloneNo.:
241093G11

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:500-1:2000

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, HEK-293 cells, HeLa cells, rat skin tissue

IHC : mouse skin tissue,

Background Information

Desmosomes are cell-cell junctions between epithelial, myocardial, and certain other cell types. Desmosomal cadherins, consisting of four desmogleins (DSG1-4) and three desmocollins (DSC1-3) in humans, mediate adhesion through calcium-dependent homophilic/heterophilic interactions. DSG1 is a single-pass transmembrane glycoprotein highly expressed in the epidermis and localized primarily within the suprabasal epithelial layers (PMID: 16286477; 24220297). DSG1 mediates intercellular adhesion and is crucial in maintaining epidermal integrity and barrier function (PMID: 23974871). It is also involved in epithelial cell differentiation (PMID: 23524961). Mutations in the DSG1 gene can cause the autosomal dominant disorder to striate palmoplantar keratoderma and a syndrome featuring severe dermatitis, multiple allergies, and metabolic wasting (SAM syndrome) (PMID: 29315490; 23974871).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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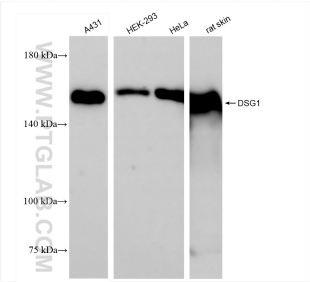
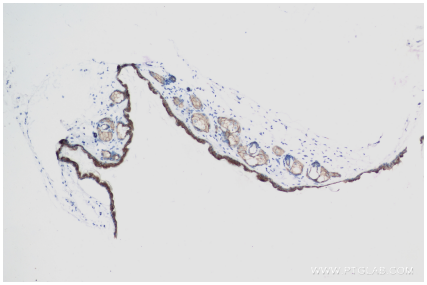
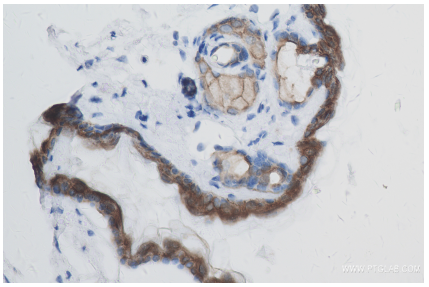
Selected Validation Data



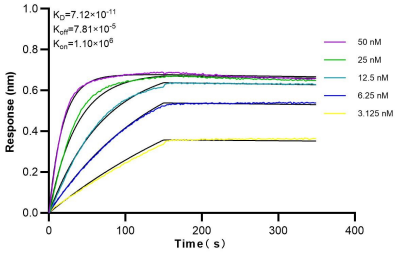
Various lysates were subjected to SDS PAGE followed by western blot with 84053-6-RR (DSG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 84053-6-RR (DSG1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 84053-6-RR (DSG1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84053-6-RR against Human DSG1 were performed. The affinity constant is 71.2 pM.