

Anti-Desmoglein 3/DSG3 Antibody

Catalog Number: PA1567

About DSG3

Desmoglein3 is also known as PVA (Pemphigus Vulgaris Antigen). Pemphigus vulgaris (PV) and pemphigus foliaceus (PF) are autoimmune diseases of the skin which have as target antigens 2 different members of the desmoglein subfamily of the desmosomal cadherins: pemphigus vulgaris antigen (PVA, or desmoglein-3) in the case of PV and desmoglein I in the case of PF. The DSG3 gene, like the genes for DSG1 and DSG2, is located on chromosome 18. The human DSG3 gene consists of 15 exons and spans more than 23 kb. DSG3 and DSG1 are the autoantigens of pemphigus vulgaris and pemphigus foliaceus, respectively. DSG3 and DSG1 are the target antigens in PNP, and IgG autoantibodies against DSG3 in PNP sera play a pathogenic role in the loss of keratinocyte adhesion and blistering.

Overview

Product Name	Anti-Desmoglein 3/DSG3 Antibody
Reactive Species	Human
Description	Rabbit IgG polyclonal antibody for Desmoglein-3 (DSG3) detection. Tested with WB in Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P32926

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Desmoglein 3 (981-999aa QLRGSHTMLCTEDPCSRLI).
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Predicted Reactive Species	Monkey
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5µg/ml, Human
	For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

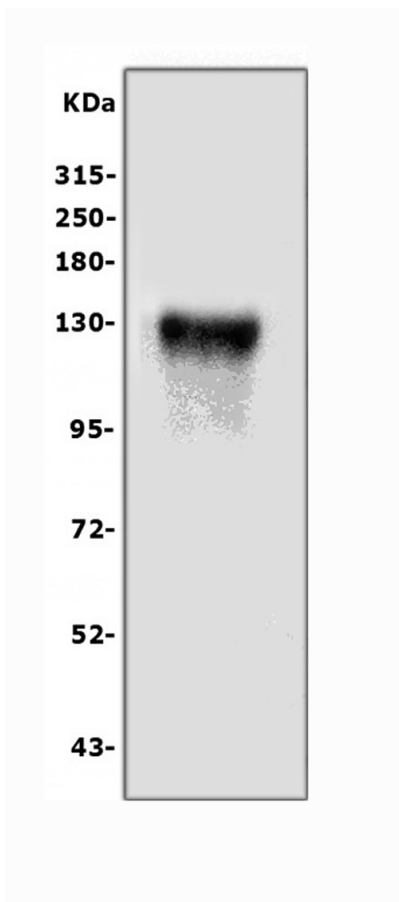
Anti-Desmoglein 3/DSG3 Antibody (PA1567) Images

Figure 1. Western blot analysis of DSG3 using anti- DSG3 antibody (PA1567).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human A431 whole cell lysates,

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DSG3 antigen affinity purified polyclonal antibody (Catalog # PA1567) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DSG3 at approximately 130KD. The expected band size for DSG3 is at 107KD.



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