

Anti-Desmoglein 3/PVA/DSG3 Antibody Picoband®

Catalog Number: A03093

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

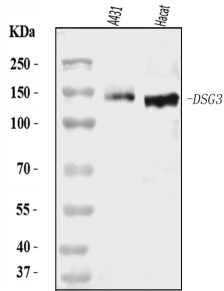
Product Name	Anti-Desmoglein 3/PVA/DSG3 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Desmoglein 3/PVA/DSG3 Antibody Picoband® catalog # A03093. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P32926

Technical Details

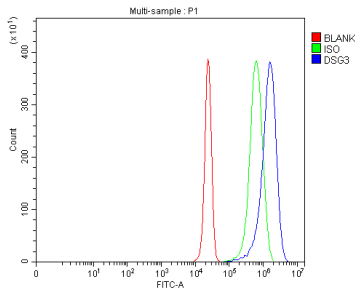
Immunogen	E.coli-derived human Desmoglein 3/PVA/DSG3 recombinant protein (Position: R384-Q957).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10 ⁶ cells, Human ELISA, 0.1-0.5 ug/ml, -

Anti-Desmoglein 3/PVA/DSG3 Antibody Picoband® (A03093) Images



Western blot analysis of Desmoglein 3/PVA/DSG3 using anti-Desmoglein 3/PVA/DSG3 antibody (A03093). 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 30 ug of sample under reducing conditions. Lane 1: human A431 whole cell lysates, Lane 2: human Hacat whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-Desmoglein 3/PVA/DSG3 antigen affinity purified polyclonal antibody (Catalog # A03093) at 0.5 ug/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 1:5000 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 Desmoglein 3/PVA/DSG3 at approximately 130 kDa. The expected band size for Desmoglein 3/PVA/DSG3 is at 130 kDa.



Flow Cytometry analysis of HepG2 cells using anti-Desmoglein 3/PVA/DSG3 antibody (A03093). Overlay histogram showing HepG2 cells stained with A03093 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Desmoglein 3/PVA/DSG3 Antibody (A03093, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Submit a product review to [Biocompare.com](https://www.biocompare.com)

Submit a review of this product to [Biocompare.com](https://www.biocompare.com) to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Desmoglein 3/PVA/DSG3 Antibody

For Research Use Only. Not for use in diagnostic procedures.