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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Desmoglein-3 [F779] Bulk Size Ab03419-10.0-BT

Isotype and Format: Human IgG1, Kappa

Clone Number: F779

Alternative Name(s) of Target: DSG3; PVA; CDHF6; Desmoglein 3; 130 kDa pemphigus vulgaris antigen; Cadherin family member 6

UniProt Accession Number of Target Protein: P32926

Published Application(s): ELISA, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated from the peripheral blood of four patients with active untreated pemphigus vulgaris (PV) using heterohybridoma techniques.

Specificity: This antibody binds human desmoglein-3 between amino acids 1-161 and does not cross react with desmoglein-1. It is a component of intercellular desmosome junctions. It is involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion. Pemphigus vulgaris (PV) is a potentially lethal skin disease in which epidermal blisters occur as the result of the loss of cell-cell adhesion caused by the action of autoantibodies against desmoglein 3. It is characterized by suprabasal blistering of skin and mucous membranes.

Application Notes: This antibody can be used for the determination of desmoglein-3 using ELISA. The binding affinity of IgG1 version of this antibody for human desmoglein-3 was determined using surface plasmon resonance and was found to be $K_d = 1.77$ nM (PMID: 24942562). This antibody was also used in the direct and indirect immunofluorescence staining of frozen human skin sections (PMID: 24942562; 27304671) The IgG1 and IgG4 variants of this antibody induce loss of cell surface Dsg3 in primary human epidermal keratinocytes and suprabasal blisters in human skin (PMID: 27304671). This antibody is pathogenic in nature and caused suprabasal blisters in human skin at comparable doses of 25 μ g and 50 μ g (PMID: 27304671).

Antibody First Published in: Cho et al. Shared VH1-46 gene usage by pemphigus vulgaris autoantibodies indicates common humoral immune responses among patients. Nat Commun. 2014 Jun 19;5:4167.

[PMID:24942562](#)

Note on publication: This paper identifies VH1-46 autoantibody gene as a common gene expressed in patients with pemphigus vulgaris.

Product Form

Size:

1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.