



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## **Anti-Desmoglein-3 [F779] Standard Size Ab03419-1.1**

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Mouse 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  $\mu$ g and 50  $\mu$ 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](https://pubmed.ncbi.nlm.nih.gov/24942562/)

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

## Product Form

**Size:** 200  $\mu$ g Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. 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.