



Mouse anti Desmoglein 3 Monoclonal Antibody

Alternative Name(s): DSG3, Desmoglein 3 (Dsg3); Pemphigus Vulgaris Antigen (PVA)

Order Information

- **Description:** Desmoglein 3
- **Catalogue:** 603-810
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ZY043
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

The recombinant protein of human Desmoglein-3 extracellular domain.

BACKGROUND

Dsg3 and Dsg1 are members of the desmosomal cadherins that provide adhesive integrity to desmosomes between adjoining keratinocytes; the former distributes primarily in the deeper epidermis, whereas the latter is localized to the superficial epidermis. This distribution profile of these target antigens, Dsg3 and Dsg1, of PV (Pemphigus Vulgaris) and pemphigus foliaceus autoantibodies explains the characteristic clinical features and histopathological localization of acantholysis in their respective diseases. Dsg3 plays important roles in cell-cell adhesion in PV-autoimmune disease as well as in human squamous cell cancer. The level of Dsg3 can be used as a read-out of pathogenic changes.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human Desmoglein 3 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20°C to -70°C . The antibodies can be stored at 2°C - 8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

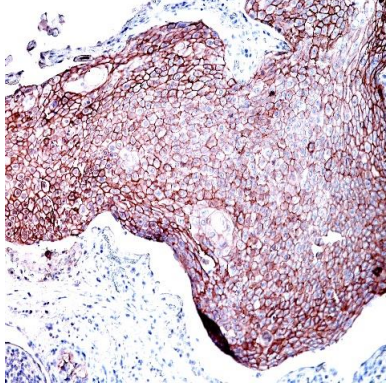
- Western Blot: 0.1-1 $\mu\text{g/ml}$
- ELISA: 0.01-0.1 $\mu\text{g/ml}$
- Immunoprecipitation: 2-5 $\mu\text{g/ml}$
- IHC: 2-10 $\mu\text{g/ml}$
- Flow cytometry: Not tested
- Molecular Weight: 130.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Immunohistochemistry: Human lung squamous carcinoma (FFPE) stained with Mouse anti-Desmoglein 3 (Cat# 603-810) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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