

# Product datasheet

## anti-Desmoglein 1-4 sample set

### Short overview

<b>Cat. No.</b>	70033
<b>Quantity</b>	600 µl each antibody

### Product description

<b>Host</b>	Guinea pig, Mouse
<b>Antibody Type</b>	Monoclonal, Polyclonal
<b>Immunogen</b>	See individual antibody datasheet for information about specific immunogens
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Unconjugated
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	IHC, WB
<b>Reactivity</b>	See individual antibody datasheet

### Applications

<b>Immunohistochemistry (IHC) - frozen</b>	Ready-to-use
<b>Immunohistochemistry (IHC) - paraffin</b>	Ready-to-use (microwave treatment recommended)
<b>Western Blot (WB)</b>	Assay dependent (anti-Desmoglein 4, Cat. No. GP4S not tested)

### Background

As one of the stronger cell-to-cell adhesion types desmosomes allow cells to connect their intermediate filaments to those of neighboring cells. Therefore desmosomes can be found especially in cardiac muscle tissue, in bladder tissue and in epithelia, where the mechanical stress is quite high. As members of the cadherin super family, desmogleins and desmocollins thereby mediate adhesion at desmosomes. Plakoglobin and the plakophilins on the other hand are members of the armadillo gene family and mediate the connection of the desmosome to desmoplakins that themselves mediate the connection to the cytoskeleton.

Mutations in these proteins or autoimmune reaction against them lead to severe diseases like arrhythmogenic right ventricular cardiomyopathy, Hailey-Hailey disease or striate palmoplantar keratoderma.

Furthermore the tissue-specific expression of desmosomal proteins is critical to tissue homeostasis. Misexpression of single components of desmosomes can lead to hyperproliferation and abnormal differentiation.

The anti-desmoglein 1-4 sample set provides antibodies directed against Desmoglein 1, 2, 3 and 4 to evaluate their presence and status in IHC and WB. The set contains enough antibody to perform stainings on 6-12 sections per antibody.

Set content: Cat. No. 651111S, anti-Desmoglein 1 mouse monoclonal, Dsg1-P124, supernatant, sample (ready-to-use) Cat. No. 651119S,

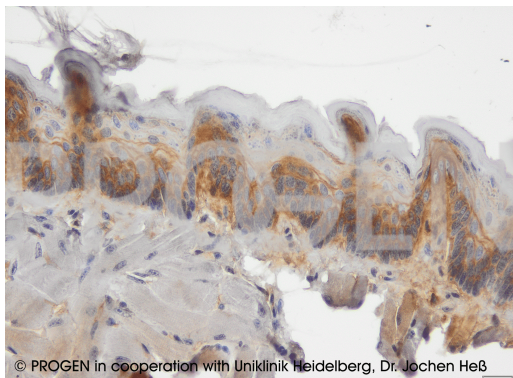
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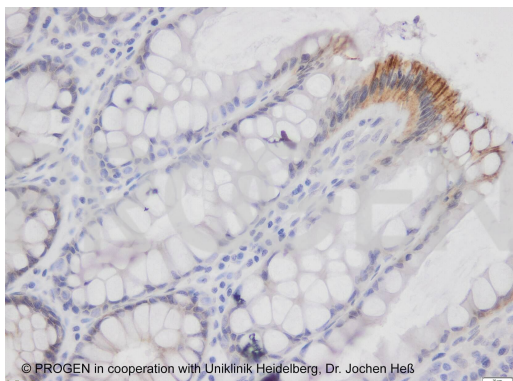
anti-Desmoglein 2 mouse monoclonal, G129, supernatant, sample (ready-to-use)Cat. No. 651112S, anti-Desmoglein 3 mouse monoclonal, Dsg-G194, supernatant, sample (ready-to-use)Cat. No. GP4S, anti-Desmoglein 4 guinea pig polyclonal, serum, sample (ready-to-use)

## Product images



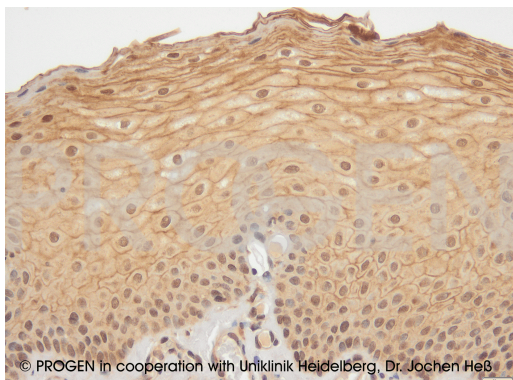
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IHC of human oral mucosa using anti-Desmoglein 3 antibody (Cat. No. 651112) (courtesy of J.Heß, University Hospital Heidelberg)



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IHC of human colon using anti-Desmoglein 2 antibody (Cat. No. 651119) (courtesy of J.Heß, University Hospital Heidelberg)



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IHC of human oral mucosa using anti-Desmoglein 1 antibody (Cat. No. 651111) (courtesy of J.Heß, University Hospital Heidelberg)