

Product datasheet

anti-Desmosome sample set 1

Short overview

Cat. No.	70030
Quantity	600 µl each antibody

Product description

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

Applications

Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use (microwave treatment recommended)
Western Blot (WB)	Assay dependent

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-desmosome sample set 1 provides antibodies directed against Desmoglein 1, Desmocollin 1, Plakophilin 1, Plakoglobin and Desmoplakin 1/2 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. 61092S,

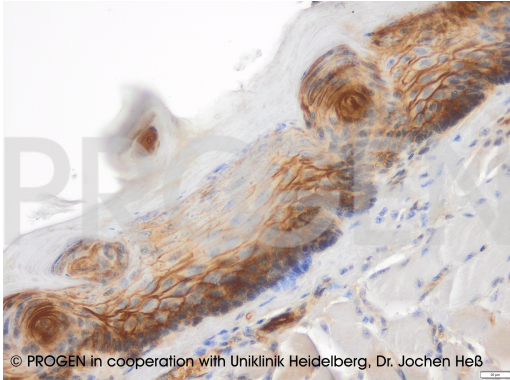
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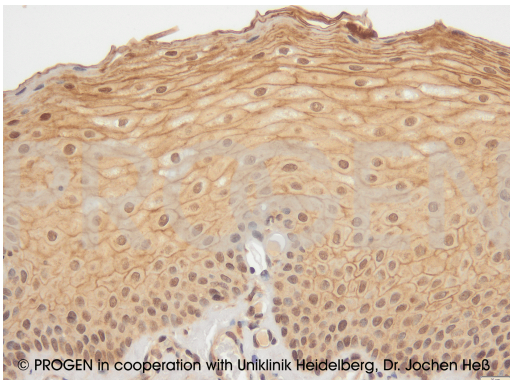
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anti-Desmocollin 1 mouse monoclonal, Dsc1-U100, purified , sample (ready-to-use)Cat. No. 65160S, anti-Plakophilin 1 mouse monoclonal, PP1-5C2, supernatant , sample (ready-to-use)Cat. No. 61005S, anti-Plakoglobin mouse monoclonal, PG 5.1, purified , sample (ready-to-use)Cat. No. 61003S, anti-Desmoplakin 1/2 mouse monoclonal, DP 1 + 2-2.15, purified , sample (ready-to-use)

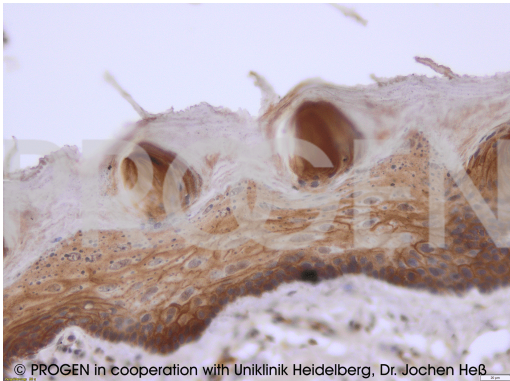
Product images



IHC of mouse tongue using anti-Plakophilin 1 antibody (Cat. No. 65160) (courtesy of J.Heß, University Hospital Heidelberg)



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



IHC of rat tongue using anti-Plakoglobin antibody (Cat. No. 61005) (courtesy of J.Heß, University Hospital Heidelberg)