

## Product datasheet

anti-Desmocollin 1 mouse monoclonal, Dsc1-U100, lyophilized, purified

### Short overview

<b>Cat. No.</b>	61092
<b>Quantity</b>	50 µg
<b>Concentration</b>	50 µg/ml after reconstitution with 1 ml dist. water

### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Clone</b>	Dsc1-U100
<b>Immunogen</b>	Synthetic peptide corresponding to sequence present within the intracellular part of human desmocollin 1 (HQTLESVKGVGQGDGTGRYATDWQC)
<b>Formulation</b>	Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4)
<b>UniprotID</b>	Q08554 (Human)
<b>Synonym</b>	Desmocollin-1, DSC1, Cadherin family member 1, Desmosomal glycoprotein 2/3, DG2/DG3, CDHF1
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage before reconstitution</b>	2-8°C until indicated expiry date
<b>Storage after reconstitution</b>	Up to 3 months 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>	Human, Mouse, Rat

### Applications

<b>Immunohistochemistry (IHC) - frozen</b>	1:50-1:100 (preincubation (directly after fixation) with 0.05-0.2% Triton X-100, for 5-10 min, depending on tissue type, is recommended; without detergent pretreatment a cytoplasmic
<b>Immunohistochemistry (IHC) - paraffin</b>	1:50-1:100 (might cross react) (no detergent pretreatment recommended; a slight crossreactivity with a lymphocyte subpopulation is abolished by mild trypsinization after the microwave step)
<b>Western Blot (WB)</b>	Assay dependent

## Background

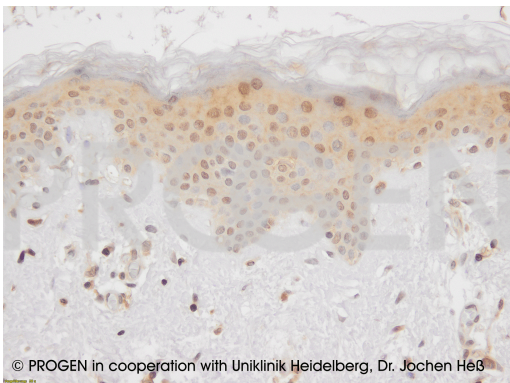
Mouse monoclonal antibody localizes Dsc1 present in

- Suprabasal layers of interfollicular epidermis
- Specific cell layers (e.g. in hair follicle root sheath)
- Hassall bodies (spheroidal formations of densely packed reticulum-derived cells in the thymus).

Reacts with 111 kDa (form "a") and 103 kDa (form "b") polypeptides (desmocollin 1 splice forms, both at pI 5.2) from human epidermal desmosomes.

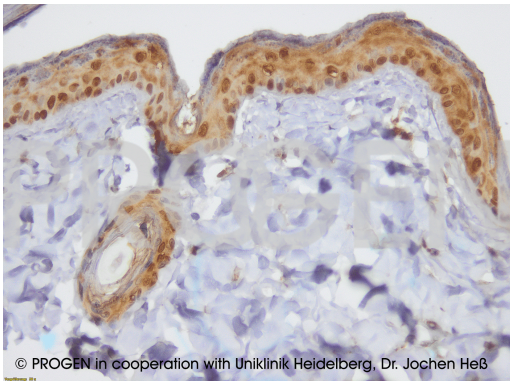
Reactivity on cultured cell lines: positive on primary keratinocytes, however, restricted to local piles of differentiated cells. All simple epithelia are negative.

## Product images



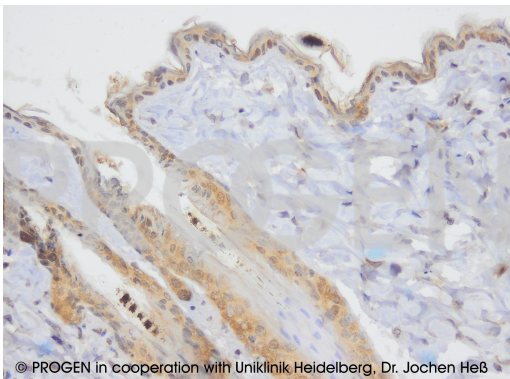
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IHC of human skin (courtesy of J.Heß, University Hospital Heidelberg)



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IHC of rat skin (courtesy of J.Heß, University Hospital Heidelberg)



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IHC of mouse skin (courtesy of J.Heß, University Hospital Heidelberg)

## References

Publication	Species	Application
<a href="#">Akat, K. et al. Molecular characterization of desmosomes in meningiomas and arachnoidal tissue. Acta Neuropathol. 106, 337â€“347 (2003).</a>	human	IHC (frozen)
<a href="#">Kurzen, H. et al. Compositionally different desmosomes in the various compartments of the human hair follicle. Differentiation 63, 295â€“304 (1998).</a>	human	IHC (paraffin)