

## 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 (HQTLESVKGVGGDTGRYATDWQC) |
| <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) is not 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

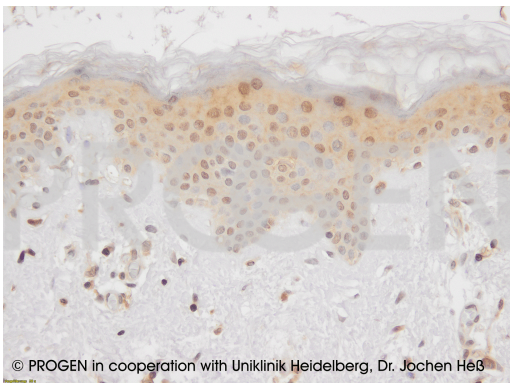
Mouse monoclonal antibody localizes Dsc1 present in

- 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.

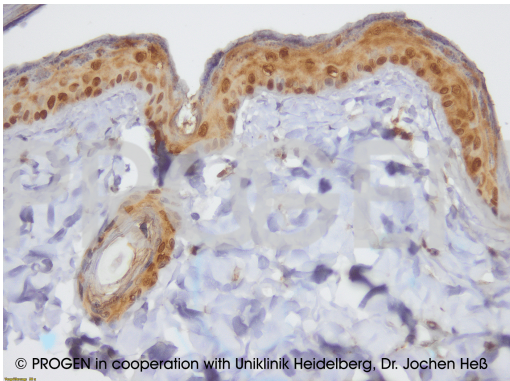
Reactivity on cultured cell lines: positive on primary keratinocytes, however, restricted to local piles of differentiated cells. All simple epithelia are negative.

## Product images



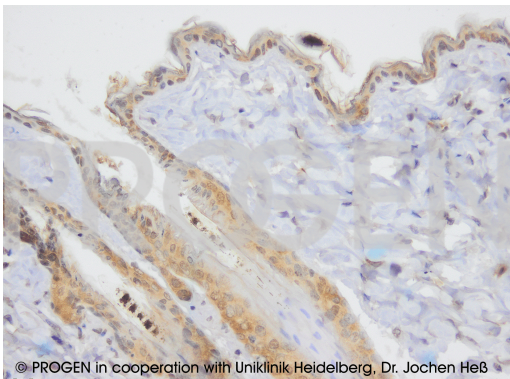
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IHC of human skin (courtesy of J.Heß, University Hospital Heidelberg)



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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) |