

Product datasheet

anti-Desmocollin 3 mouse monoclonal, Dsc3-U114, liquid, purified, sample

Short overview

Cat. No.	690093S
Quantity	200 µl
Concentration	50 µg/ml (10 µg)

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	Dsc3-U114
Immunogen	Synthetic peptide corresponding to a sequence present on the extracellular anchor domain of human desmocollin 3 (VHGAPFYFSLPNTSPEISRLWSLTKVC)
Formulation	PBS pH 7.4 with 0.09% sodium azide and 0.5% BSA
UniprotID	Q14574 (Human), P55292 (Mouse), D3ZZI6 (Rat)
Synonym	Desmocollin-3, Cadherin family member 3, Desmocollin-4, HT-CP, DSC3, CDHF3, DSC4
Conjugate	Unconjugated
Purification	Affinity chromatography
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	Human, Mouse, Rat
No reactivity	Bovine

Applications

Immunohistochemistry (IHC) - frozen	1:10-1:100 (0.5-5 µg/ml, for better resolution preincubation (directly after fixation) with 0.05-0.2% Triton X-100, for 5-10 min, depending on tissue type, is recommended)
Immunohistochemistry (IHC) - paraffin	1:10-1:100 (0.5-5 µg/ml, microwave treatment recommended)
Western Blot (WB)	Assay dependent

Background

The mouse monoclonal antibody localizes Dsc3 present in

- All living epidermal layers

- In glandular duct cells

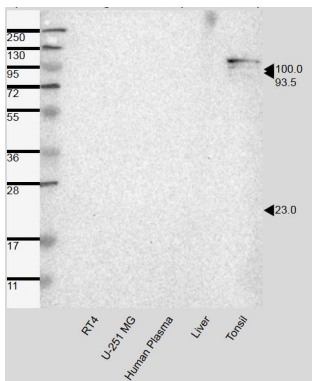
- In basal matrix cells and outer root sheath of hair follicles

- Basal and suprabasal cell layers of stratified epithelia (e.g. vagina, tongue, esophagus), basal layer of bladder urothelium and complex epithelium of trachea

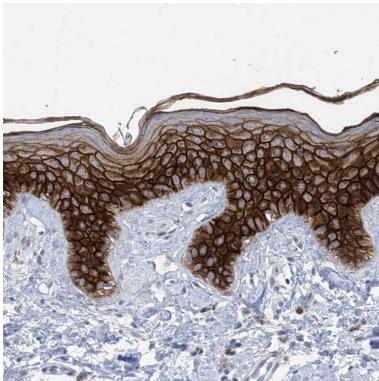
- Thymic reticulum cells

All simple epithelia are negative. Intercalated disks of myocardium are negative. Polypeptide reacting: 109 kDa and 100 kDa polypeptides (desmocollin 3 splice isoforms at pI 5.2) from human epidermal desmosomes. Reactivity on cultured cell lines: most cultured cell lines derived from stratified squamous epithelia or squamous cell carcinomas are positive (e.g. A-431, HaCaT).

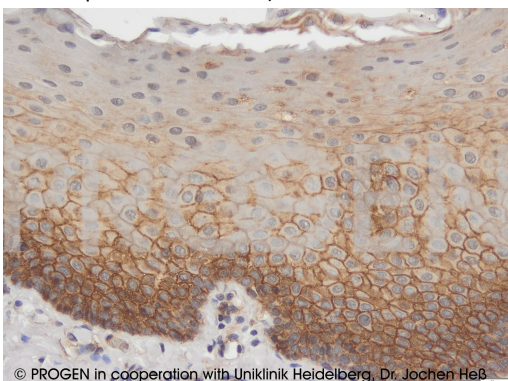
Product images



Western blot with anti-Desmocollin 3 on various tissues (courtesy of The Human Protein Atlas, www.proteinatlas.org, Thul PJ et al, 2017. A subcellular map of the human proteome. Science)



Desmocollin 3 staining on human skin (courtesy of The Human Protein Atlas, www.proteinatlas.org, Thul PJ et al, 2017. A subcellular map of the human proteome. Science)



IHC of human oral mucosa with anti-Desmocollin 3 (1:10, courtesy of J.Heß, University Hospital Heidelberg)

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References

Publication	Species	Application
Peter J Koch, Saiphone Webb, Jessica A Gugger, Maddison N Salois, Maranke I Koster. Differentiation of Human Induced Pluripotent Stem Cells into Keratinocytes., Curr Protoc 2, e408, (2022)	human	WB
Khan, K. et al. Desmocollin switching in colorectal cancer. Br. J. Cancer 95, 1367â€“1370 (2006).	human	WB,IHC (paraffin)
Hatzfeld, M., Haffner, C., Schulze, K. & Vinzens, U. The Function of Plakophilin 1 in Desmosome Assembly and Actin Filament Organization. J. Cell Biol. 149, 209â€“222 (2000).	human	ICC-IF
Kurzen, H. et al. Compositionally different desmosomes in the various compartments of the human hair follicle. Differentiation 63, 295â€“304 (1998).	human	IHC (paraffin)
Akat, K. et al. Molecular characterization of desmosomes in meningiomas and arachnoidal tissue. Acta Neuropathol. 106, 337â€“347 (2003).	human	WB,IHC (frozen)