

Product datasheet

anti-Desmocollin 3 mouse monoclonal, Dsc3-U114, lyophilized, purified

Short overview

Cat. No.	61093
Quantity	50 µg
Concentration	50 µg/ml after reconstitution with 1 ml dist. water

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	Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4)
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 before reconstitution	2-8°C until indicated expiry date
Storage after reconstitution	Up to 3 months 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 (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 (microwave treatment recommended)
Western Blot (WB)	Assay dependent

Background

The mouse monoclonal antibody localizes Dsc3 present in

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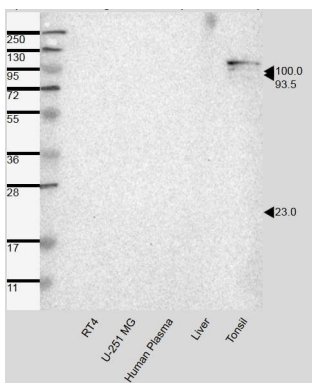
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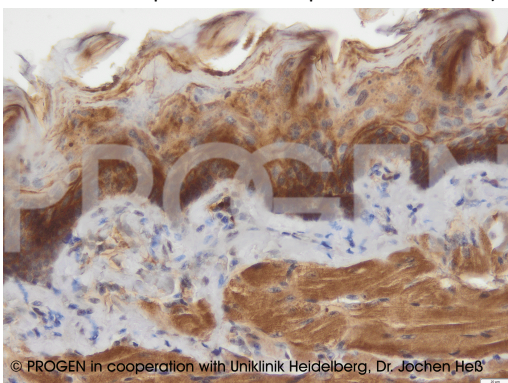
- All living epidermal layers
- In glandular duct cells
- In basal matrix cells and outer root sheath of hair follicles
- Basal and suprabasal cell layers of stratified epithelia (e.g. vagina, tongue, esophagus), basal layer of bladder urothelium and complex epithelium of trachea
- Thymic reticulum cells

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).

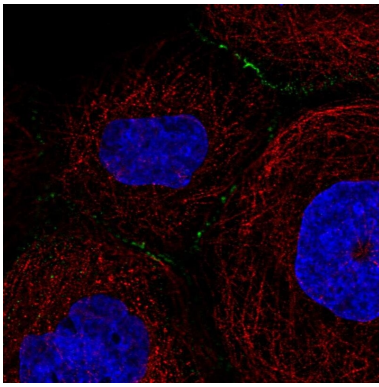
Product images



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)



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



Desmocollin 3 staining on A431 cells (courtesy of The Human Protein Atlas, www.proteinatlas.org, Thul PJ et al, 2017. A subcellular map of the human proteome. Science)

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)