

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

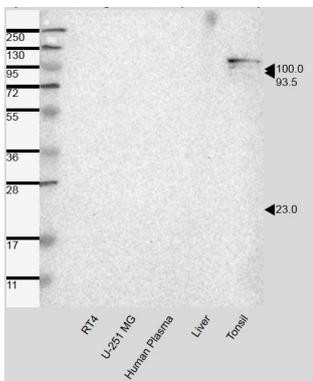
- In basal matrix cells and outer root sheath of hair follicles

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

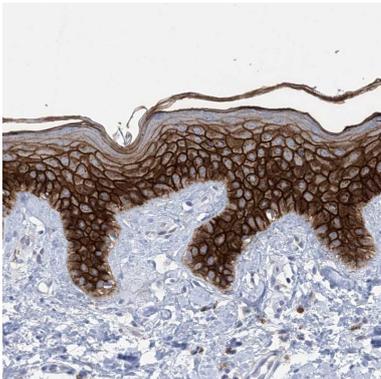
- Thymic reticulum cells

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).

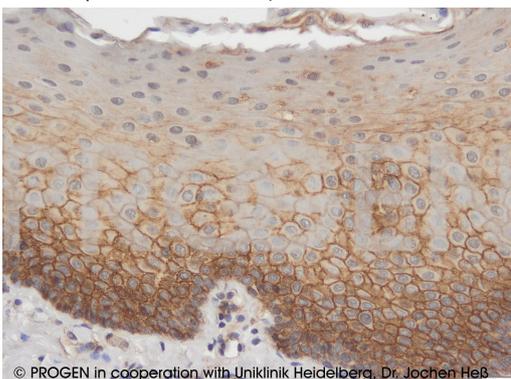
Product images



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
Wanuske, M. T. et al. Clustering of desmosomal cadherins by desmoplakin is essential for cell-cell adhesion., Acta Physiol (Oxf) 231, e13609, (2021).	human	ICC-IF, IP, WB
Kudo, I. et al. Particular gene upregulation and p53 heterogeneous expression in TP53-mutated maxillary carcinoma. Oncol.Lett. 14, 4633-4640 (2017).	human	IHC (paraffin)
Khan, K. et al. Desmocollin switching in colorectal cancer. Br. J. Cancer 95, 1367-1370 (2006).	human	WB,IHC (paraffin)
Akat, K. et al. Molecular characterization of desmosomes in meningiomas and arachnoidal tissue. Acta Neuropathol. 106, 337-347 (2003).	human	WB,IHC (frozen)