Product datasheet

anti-Keratin K10 guinea pig polyclonal, serum

Short overview

Cat. No.	GP-K10
Quantity	100 µl

Product description

Host	Guinea pig
Antibody Type	Polyclonal
Immunogen	Synthetic peptide of human keratin K10 (formerly also designated cytokeratin 10; C-GS VGE SSS KGP RY), coupled to KLH
Formulation	Contains 0.09% sodium azide and 0.5% BSA
UniprotID	P13645 (Human),P02535 (Mouse),Q6IFW6 (Rat)
Synomym	Keratin, type I cytoskeletal 10, Cytokeratin-10, CK-10, Keratin-10, K10, KRT10, KPP
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Stabilized antiserum
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	ICC/IF, IHC, WB
Reactivity	Human, Mouse, Rat

Applications

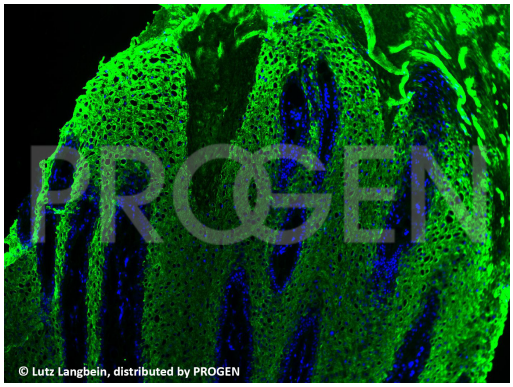
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:100-1:200
Immunohistochemistry (IHC) - paraffin	1:100-1:200 (microwave treatment recommended)
Western Blot (WB)	1:250-1:1,000

Background

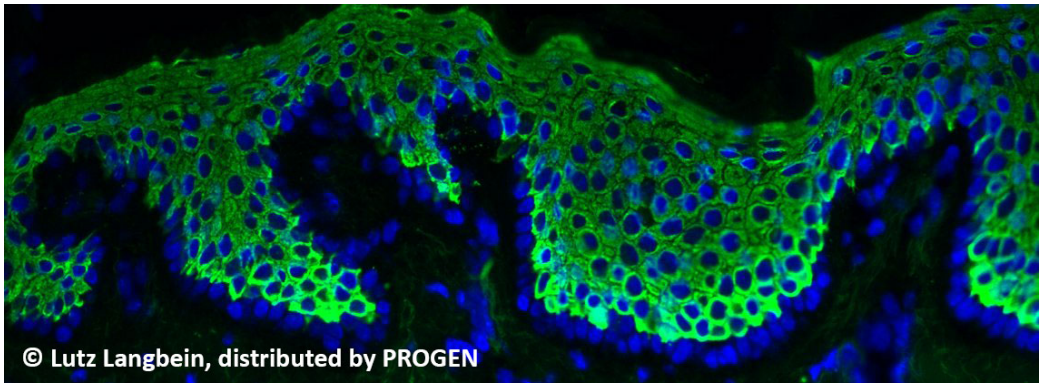
MW 56,5000 (pI 5.3) intermediate filament polypeptide, keratin K10, detected by immunohistochemistry in the suprabasal layers of human epidermis (basal cells are negative). Useful for the recognition of keratinizing cells in squamous cell carcinoma of epidermis, lung, bladder, cervix, esophagus etc. Completely negative on non-stratified epithelia.

Positive control: human suprabasal keratinocytes of epidermis; squamous cell carcinoma.

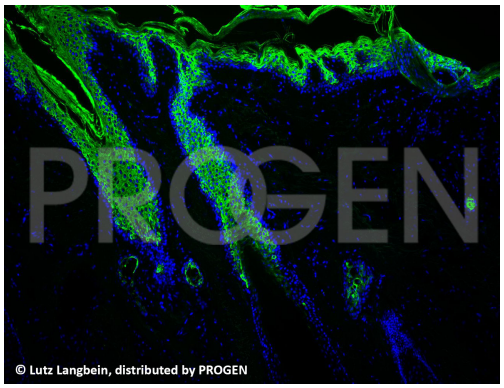
Product images



Human wart (courtesy of L. Langbein)



Human scalp (courtesy of L. Langbein)



Human scalp (courtesy of L. Langbein)

References

Publication	Species	Application
Moore, J. L. et al. Cell cycle controls long-range calcium signaling in the regenerating epidermis. J. Cell Biol. 222, (2023).	mouse	IHC/IF
Bornes, L., Windoffer, R., Leube, R. E., Morgner, J. & Van Rheenen, J. Scratch-induced partial skin wounds re-epithelialize by sheets of independently migrating keratinocytes. Life Sci. Alliance 4, (2021).	mouse	IHC-IF
Vasilaki, E. et al. Dll1 Marks Cells of Origin of Ras-Induced Cancer in Mouse Squamous Epithelia. Transl.Oncol. 11, 1213-1219 (2018).	mouse	IHC-IF (paraffin)
Papafotiou, G. et al. KRT14 marks a subpopulation of bladder basal cells with pivotal role in regeneration and tumorigenesis. Nat. Commun. 7, (2016).	mouse	IHC (paraffin)
Montagner, A. et al. Src is activated by the nuclear receptor peroxisome proliferator-activated receptor beta/delta in ultraviolet radiation-induced skin cancer. EMBO Mol. Med. 6, 80â€“98 (2014).	mouse	IHC (paraffin)