Product datasheet

anti-Keratin K5 guinea pig polyclonal, serum

Short overview

Cat. No.	GP-CK5
Quantity	100 µl

Product description

Host	Guinea pig
Antibody Type	Polyclonal
Immunogen	Recombinant human keratin K5
Formulation	Contains 0.09% sodium azide and 0.5% BSA
UniprotID	Q5XQN5 (Bovine), Q7RTS7 (Human), Q922U2 (Mouse)
Synomym	Keratin, type II cytoskeletal 74, Cytokeratin-74, CK-74, Keratin-5c, K5C, Keratin-74, K74, Type II inner root sheath-specific keratin-K6irs4, Type-II keratin Kb37, KRT74, K6IRS4, KB37, KRT5C, KRT6IRS4
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	IHC, WB
Reactivity	Bovine, Human, Mouse

Applications

Immunohistochemistry (IHC) - frozen	1:100
Immunohistochemistry (IHC) - paraffin	1:50 (microwave treatment recommended)
Western Blot (WB)	1:1,500-1:5,000

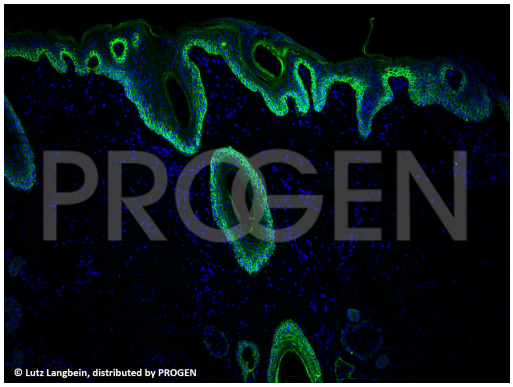
Background

Basic keratin K5 (Mr 58,000; formerly also designated cytokeratin 5), expressed in basal and first suprabasal layers of epidermis. Highly specific staining pattern in human and murine skin sections.Tumors Specifically Detected: The antiserum reacts with keratin K5, expressed in the basal cells of the larynx, esophagus, trachea, bladder, cervix, vagina, breast acini, skin and sweat glands. In several studies the correlation between the expression of keratin K5 in different types of carcinomas (putatively derived from basal epithelial cells) and prognosis has been discussed (see publications).

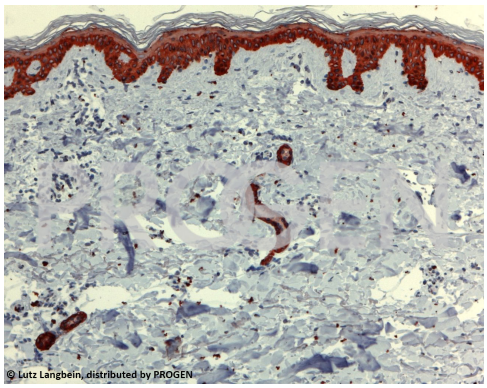
Product images



Human scalp (courtesy of L. Langbein)



Human scalp (courtesy of L. Langbein)



Human back skin (courtesy of L. Langbein)

References

Publication	Species	Application
Pontiggia, L. et al. Bioprinting and plastic compression of large pigmented and vascularized human dermo-epidermal skin substitutes by means of a new robotic platform. J. Tissue Eng. 13, (2022).		IHC-IF
Wang, X. et al. PINCH-1 promotes IGF-1 receptor expression and skin cancer progression through inhibition of the GRB10-NEDD4 complex. Theranostics 12, 2613â€“2630 (2022).	mouse	IHC-IF (frozen)
Le, H.Q. et al. An EZH2-dependent transcriptional complex promotes aberrant epithelial remodelling afterÂ injury. EMBO Rep. 22, e52785(2021).	mouse	IHC (paraffin)/IF
Pora, A. et al. Regulation of keratin network dynamics by the mechanical properties of the environment in migrating cells. Sci.Rep. 10, 4574 (2020)	human	WB
Noguchi, S. et al. Beclin 1 regulates recycling endosome and is required for skin development in mice. Commun.Biol. 2, 37 (2019)	human,mouse	IHC-IF,WB