

Product datasheet

anti-Keratin K14 guinea pig polyclonal, serum

Short overview

Cat. No.	GP-CK14
Quantity	100 µl

Product description

Host	Guinea pig
Antibody Type	Polyclonal
Immunogen	Peptide against human K14 C-VSTHEQVLRTKN (460-472)
Formulation	Contains 0.09% sodium azide and 0.5% BSA
UniprotID	P02533 (Human), Q61781 (Mouse)
Synonym	Keratin, type I cytoskeletal 14, Cytokeratin-14, CK-14, Keratin-14, K14, KRT14
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	Human, Mouse

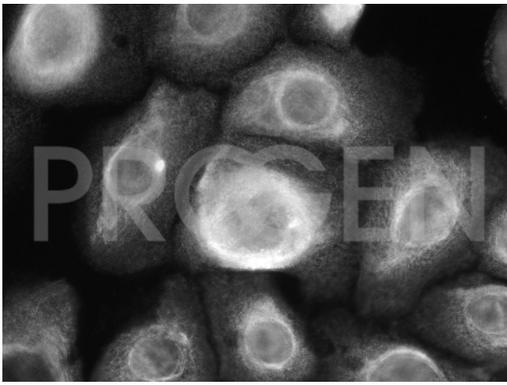
Applications

Immunohistochemistry (IHC) - frozen	1:100-1:200
Immunohistochemistry (IHC) - paraffin	1:50 (microwave treatment recommended)
Western Blot (WB)	1:5,000-1:10,000

Background

Reactive Polypeptide: acidic keratin K14 (Mr 50,000; formerly also designated cytokeratin 14), expressed in basal and first suprabasal layers of epidermis. Tested cultured cell lines: BPH-1 (derived from non-neoplastic prostatic tissue). Tumors specifically detected: the antiserum reacts with keratin K14, expressed in the basal cells of the larynx, esophagus, trachea, bladder, prostate, cervix, vagina, breast acini, skin and sweat glands. In several studies the correlation between the expression of keratin K14 in different types of carcinomas (putatively derived from basal epithelial cells) and prognosis has been discussed (see references).

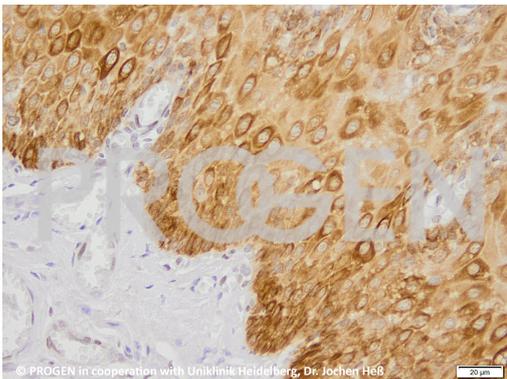
Product images



Human keratinocytes (courtesy of AG T. Magin, University of Leipzig)



Human skin (courtesy of J. Hess, University Hospital Heidelberg)



Human uvula (courtesy of J. Hess, University Hospital Heidelberg)

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	ICC-IF
Allmeroth, K. et al. N1-acetylspermidine is a determinant of hair follicle stem cell fate. J. Cell Sci. 134, (2021).	mouse	IHC-IF (paraffin)
Azazmeh, N. et al. Chronic expression of p16INK4a in the epidermis induces Wnt-mediated hyperplasia and promotes tumor initiation. Nat. Commun. 11, (2020).	mouse	IHC, IHC-IF
Wu, L. et al. Anti-CD47 treatment enhances anti-tumor T-cell immunity and improves immunosuppressive environment in head and neck squamous cell carcinoma. Oncoimmunology. 7, e1397248 (2018)	mouse	IHC-IF (paraffin)
Yosef, R. et al. Directed elimination of senescent cells by inhibition of BCL-W and BCL-XL. Nat. Commun. 7, (2016).	mouse	IHC (paraffin)