

## Product datasheet

### anti-acidic Hair Keratin K31 guinea pig polyclonal, serum

#### Short overview

<b>Cat. No.</b>	GP-HHA1
<b>Quantity</b>	100 µl

#### Product description

<b>Host</b>	Guinea pig
<b>Antibody Type</b>	Polyclonal
<b>Immunogen</b>	Complete recombinant human hair (trichocytic) keratin K31 (formerly also designated keratin hHa1), coupled to KLH
<b>Formulation</b>	Contains 0.09% sodium azide and 0.5% BSA
<b>UniprotID</b>	Q15323 (Human), Q61765 (Mouse)
<b>Synonym</b>	Keratin, type I cuticular Ha1, Hair keratin, type I Ha1, Keratin-31, K31, KRT31, HHA1, HKA1, KRTHA1
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Stabilized antiserum
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	IHC
<b>Reactivity</b>	Human, Mouse

#### Applications

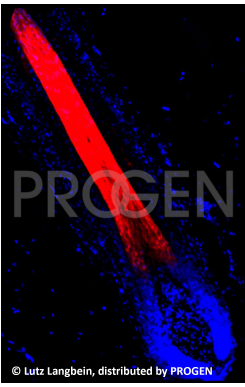
##### Immunohistochemistry (IHC) - frozen

1:200 (treatment with 0.02 % Triton X-100 recommended; for enhancement of cortex staining preincubate fixed sections with 0.1% Triton X-100 (in PBS) for 1-5 min prior to first antibody incubation step)

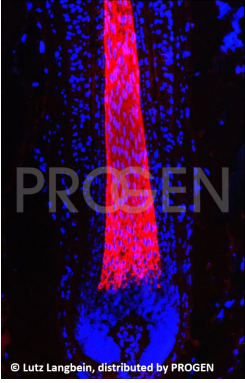
#### Background

The antiserum stains specifically human hair keratin K31 expressed starting from the lower hair cortex.

#### Product images



Human scalp hair (courtesy of L. Langbein)



Human scalp hair (courtesy of L. Langbein)

## References

Publication	Species	Application
<a href="#">Raja, E. et al. The extracellular matrix fibulin 7 maintains epidermal stem cell heterogeneity during skin aging. EMBO Rep. 23, e55478 (2022).</a>	mouse	whole mount-IF
<a href="#">Dekoninck, S. et al. Defining the Design Principles of Skin Epidermis Postnatal Growth. Cell. 181, 604-620.e22 (2020)</a>	mouse	IHC (paraffin)
<a href="#">Changarathil, G. et al. Wild-type and SAMP8 mice show age-dependent changes in distinct stem cell compartments of the interfollicular epidermis. PLoS.One. 14, e0215908 (2019)</a>	mouse	IHC (paraffin)
<a href="#">Xin, T. et al. Flexible fate determination ensures robust differentiation in the hair follicle. Nat.Cell.Biol. 20, 1361-1369 (2018)</a>	mouse	IHC-IF (frozen)
<a href="#">Sada, A. et al. Defining the cellular lineage hierarchy in the inter-follicular epidermis of adult skin. Nat. Cell Biol. 18, 619-631 (2016).</a>	mouse	IHC (frozen),whole mount