Product datasheet

anti-Keratin K2 mouse monoclonal, Ks2.342.7.4, supernatant

Short overview

Cat. No.	65191
Quantity	1 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	Ks2.342.7.4
Immunogen	Synthetic peptide (N-terminal amino acids nos. 2-23) of human keratin K2 (MW 65,852)
Formulation	Contains 0.09% sodium azide
Stability	Bovine: calf hoof epidermis, snooze epithelium; negative with tongue epithelium; Mouse/rat: heterogenously on foot sole epidermis only, negative with epidermis of other body sites.
UniprotID	G3MZ71 (Bovine), P35908 (Human)
Synomym	Keratin, type II cytoskeletal 2 epidermal, Cytokeratin-2e, CK-2e, Epithelial keratin-2e, Keratin-2 epidermis, Keratin-2e, K2e, Type-II keratin Kb2, KRT2, KRT2A, KRT2E
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Hybridoma cell culture supernatant
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	Bovine, Human

Applications

Immunocytochemistry (ICC)	1:200
Immunohistochemistry (IHC) - frozen	1:100-1:250 (pretreatment with Triton-X100 recommended)
Immunohistochemistry (IHC) - paraffin	1:250-1:500 (microwave treatment recommended)

Background

Ks 2.342.7.4 represents an excellent marker to study terminal epidermal differentiation. The mab is reactive with epidermal cells in uppermost suprabasal layers including scalp, foot and sole. It recognizes individual cells within epidermis of tongue and mamille (co-localization with keratin K10). It is also reactive on hyperkeratosis of diverse viral and genetic origin. The mab does not react with palate keratin K76.

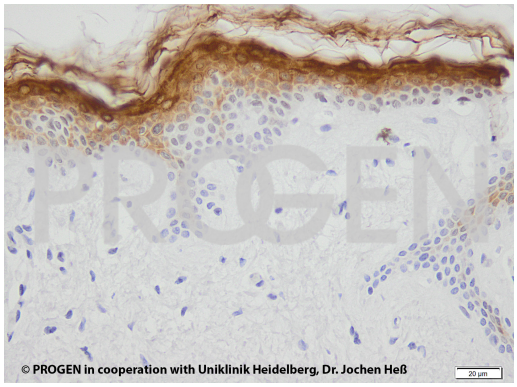
The actual clone designation of this antibody is Ks2.342.7.4. The two last digits refer to the passage number of the cultured cells of clone Ks2.342. Passage 7.1 is used up.

Reactive polypeptide (specificity): basic human keratin K2 (MW 65,852; formerly also designated cytokeratin 2e).

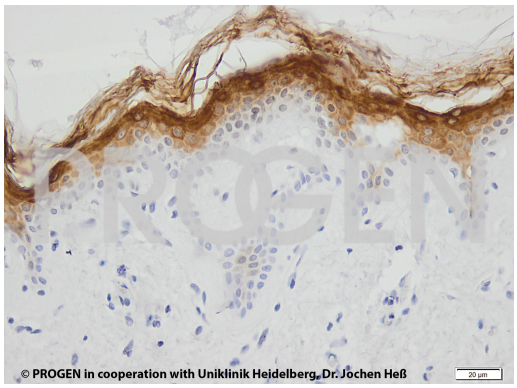
Antigen recognized in species:

- Bovine: calf hoof epidermis, snooze epithelium; negative with tongue epithelium
- Mouse/rat: heterogenously on foot sole epidermis only, negative with epidermis of other body sites

Product images



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



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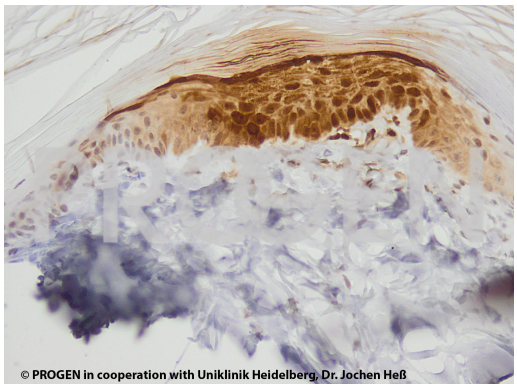

Rat tail (courtesy of J.Heß, University Hospital Heidelberg)

References

Publication	Species	Application
Langbein, L. et al. New facets of keratin K77: Interspecies variations of expression and different intracellular location in embryonic and adult skin of humans and mice. Cell Tissue Res. 354, 793â€“812 (2013).	human	IHC (frozen)