

Product datasheet

anti-Keratin Pan mouse monoclonal, Lu-5, lyophilized, purified

Short overview

Cat. No.	610145
Quantity	50 µg
Concentration	50 µg/ml after reconstitution with 1 ml dist. water

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	Lu-5
Immunogen	Cells of lung cancer cell line A549 and A2182
Formulation	Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4)
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage before reconstitution	2-8°C
Storage after reconstitution	Up to 3 months 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
Reactivity	Bovine, Chicken, Human, Mouse, Pleurodeles, Rat, Snake, Xenopus

Applications

Immunohistochemistry (IHC) - frozen	Assay dependent
Immunohistochemistry (IHC) - paraffin	1:10-1:20 (protease treatment and/or microwave treatment recommended)
Western Blot (WB)	Not applicable

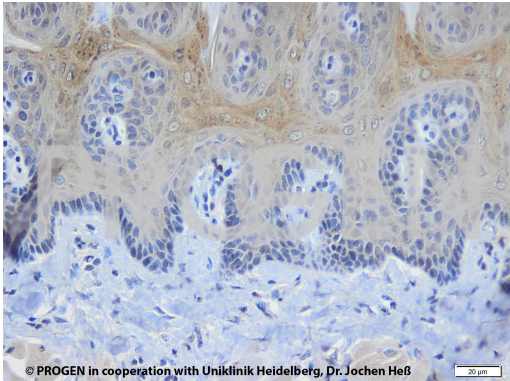
Background

Lu-5 represents an excellent marker for all types of epithelia. Ideal marker for immunolocalization studies on frozen and paraffin embedded tissue. Useful for distinguishing carcinomas from non-epithelial tumors. Tumors specifically detected: all epithelium-derived neoplasms.

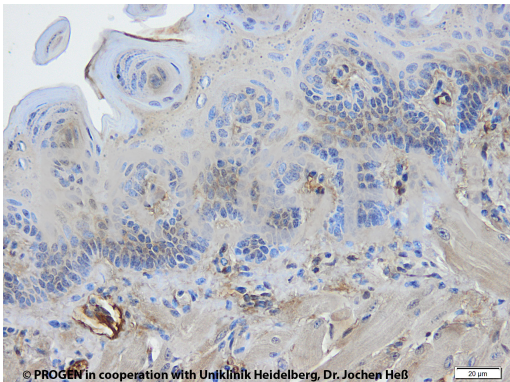
Polypeptide reacting: Most keratins present in human epithelia (including keratins - formerly also designated cytokeratins -K1, K5, K6, K14, K18, K19) and most acidic (K31 - KK38) and basic (K81 - K86) hair keratins from human hair follicle. The antibody specifically detects a conformational epitope common to most keratins, but not to other intermediate filament polypeptides.

Reactivity on cultured cell lines: MCF-7, PLC, A-431, HeLa; PtK2, A6 (XLKE).

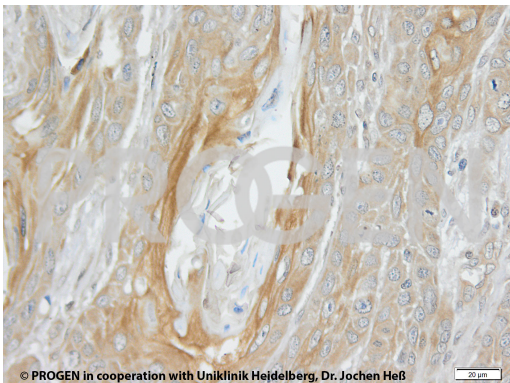
Product images



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



Mouse tongue (courtesy of J.Heß, University Hospital Heidelberg)



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

References

Publication	Species	Application
Rickelt, S. Plakophilin-2: a cell-cell adhesion plaque molecule of selective and fundamental importance in cardiac functions and tumor cell growth. Cell Tissue Res. 348, 281-94 (2012).	human	ICC-IF
Koeser, J., Troyanovsky, S. M., Grund, C. & Franke, W. W. De novo formation of desmosomes in cultured cells upon transfection of genes encoding specific desmosomal components. Exp. Cell Res. 285, 114-30 (2003).	human	ICC-IF
Chitaev, N. A. et al. The Binding of Plakoglobin to Desmosomal Cadherins: Patterns of Binding Sites and Topogenic Potential. J. Cell Biol. 113, 359-369 (1996).	human	ICC-IF
Achtstätter, T., Fouquet, B., Rungger-Braundele, E. & Franke, W. W. Cytokeratin filaments and desmosomes in the epithelioid cells of the perineurial and arachnoidal sheaths of some vertebrate species. Differentiation 40, 129-149 (1989).	human	IHC (frozen)
Rungger-Brandle, E., Achtstätter, T. & Franke, W. W. An epithelium-type cytoskeleton in a glial cell: Astrocytes of amphibian optic nerves contain cytokeratin filaments and are connected by desmosomes. J. Cell Biol. 109, 705-716 (1989).	xenopus	IHC (frozen)