Product datasheet

anti-Keratin Type II mouse monoclonal, Ks pan1-8, liquid, purified

Short overview

Cat. No.	690006
Quantity	1 ml
Concentration	50 µg/ml (50µg)

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2a
Clone	Ks pan1-8
Immunogen	Cytoskeletal proteins from cultured human MCF-7 cells
Formulation	PBS pH 7.4 with 0.09% sodium azide and 0.5% BSA
Conjugate	Unconjugated
Purification	Affinity chromatography
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	Amphibia, Bovine, Human, Mouse, Rat

Applications

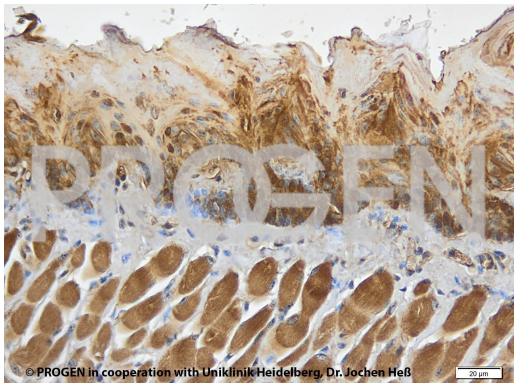
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:10-1:100 (0.5-5 µg/ml)
Immunohistochemistry (IHC) - paraffin	1:10-1:100 (0.5-5 µg/ml, microwave treatment recommended)
Western Blot (WB)	1:500 (0.1 µg/ml)

Background

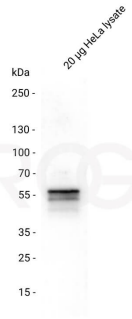
Ks pan1-8 represents an excellent marker for distinguishing carcinomas from non-epithelial tumors. Polypeptides reacting: Mr 52,500-Mr 68,000 keratins (type II keratins K1-K8; formerly also designated cytokeratins 1-8) of human epithelial cells. Tumors specifically detected: all epithelium-derived neoplasms.

Reactivity on cultured cell lines MCF-7, RT 112, HT-29, Detroit 562, RPMI 2650, SSC-12.

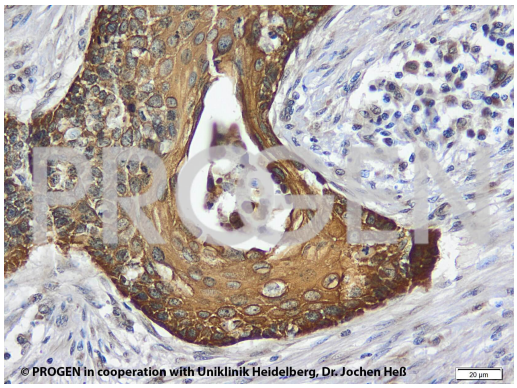
Product images



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



Western blot analysis of HeLa lysate with anti-Keratin Type II antibody. Western blot analysis was performed on 20 µg HeLa lysate. Cells were lysed with RIPA buffer. The PVDF membrane was blocked with 5% dry milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibody anti-Keratin TYpe II mouse monoclonal, Ks pan1-8 (Cat. No. 690006) was diluted in blocking buffer (antibody concentration 0.1 µg/ml) and incubated for 1 h at RT. The secondary antibody anti-mouse IgG goat polyclonal, HRP conjugate was also diluted in blocking buffer (antibody concentration 0.2 µg/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using PierceTM ECL Western Blotting Substrate.



IHC of human HNSCC tissue (courtesy of J.Heß, University Hospital Heidelberg)

References

Publication	Species	Application
Kasai, Y. et al. A stable protocol for the fabrication of transplantable human oral mucosal epithelial cell sheets for clinical application. Regen Ther. 14, 87-94(2020).	human	FACS
Kimelman, D. et al. Regulation of posterior body and epidermal morphogenesis in zebrafish by localized Yap1 and Wwtr1. Elife. 6,Â (2017).	zebrafish	whole mount
Hatzold, J. et al. Tumor suppression in basal keratinocytes via dual non-cell-autonomous functions of a Na,K-ATPase beta subunit.eLife, 5 (2016).	zebrafish	whole mount
Fischer, B. et al. p53 and TAp63 Promote Keratinocyte Proliferation and Differentiation in Breeding Tubercles of the Zebrafish 6 Cologne Excellence Cluster on Cellular Stress Responses in Aging-Associated Diseases. PLoS Genet 10, (2014).	zebrafish	IHC
Montpetit, A. et al. Disruption of AP1S1, Causing a Novel Neurocutaneous Syndrome, Perturbs Development of the Skin and Spinal Cord. PLoS Genet 4, (2008).	zebrafish	whole mount