Product datasheet

anti-Keratin K18 mouse monoclonal, Ks18.04, prediluted, purified

Short overview

Cat. No.	65028
Quantity	5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	Ks18.04
Immunogen	Human keratin K18 from HeLa cytoskeletal preparation
Formulation	PBS pH 7.4 with 0.5% BSA and 0.09% sodium azide
UniprotID	A1XEA5 (Bovine),E2REU6 (Dog, Canis familiaris),P05783 (Human),P05784 (Mouse),F1SGG1 (Pig),H0UYZ2 (Guinea pig),Q5BJY9 (Rat),W5Q5M3 (Sheep)
Synomym	Keratin, type I cytoskeletal 18, Cell proliferation-inducing gene 46 protein, Cytokeratin-18, CK-18, Keratin-18, K18, KRT18, CYK18, PIG46
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	Bovine, Dog, Hamster, Human, Mouse, Pig, Rat, Sheep, Trout, Zebrafish

Applications

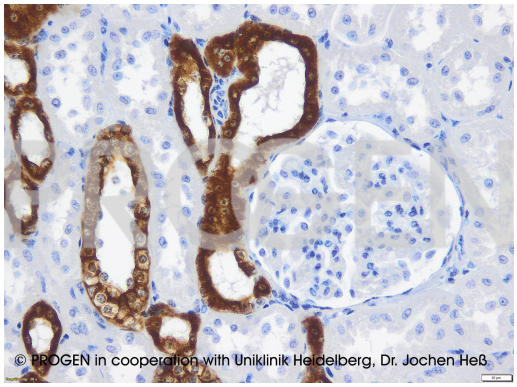
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use (microwave treatment recommended)
Western Blot (WB)	1:10-1:50

Background

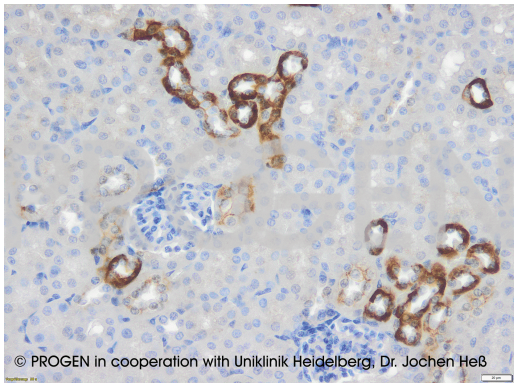
Ks18.04 represents an excellent marker to discriminate simple epithelia from those of different origin. Tumors specifically detected: all adenocarcinoma; mammary carcinoma, urinary bladder carcinoma, undifferentiated carcinoma, cervix carcinoma, hepatocellular carcinoma. Polypeptide reacting: Mr 45,000 polypeptide (human keratin K18; formerly also designated cytokeratin 18) of all simple type epithelia and basal cells of many squamous, nonepidermal epithelia.

Tested cultured cell lines: MCF-7.

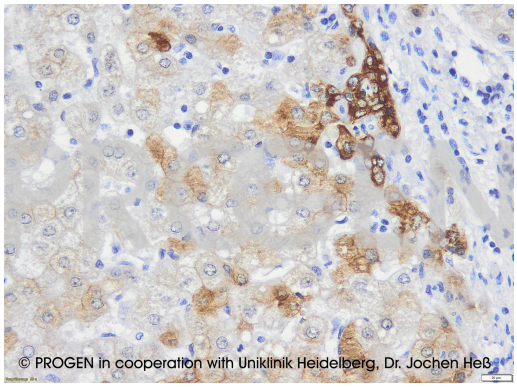
Product images



IHC of bovine kidney (courtesy of J.Heß, University Hospital Heidelberg)



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



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

References

Publication	Species	Application
Santoro, A. et al. p53 Loss in Breast Cancer Leads to Myc Activation, Increased Cell Plasticity, and Expression of a Mitotic Signature with Prognostic Value. Cell.Rep. 26, 624-638.e8 (2019)	mouse	IHC (paraffin)
Moll, R., Franke, W. W., Schiller, D. L., Geiger, B. & Krepler, R. The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors and cultured cells. Cell 31, 11â€“24 (1982).	human	
Soady, K. J. et al. Mouse mammary stem cells express prognostic markers for triple-negative breast cancer. Breast Cancer Res. 17, (2015).	mouse	ICC-IF
Anderson, L. H., Boulanger, C. A., Smith, G. H., Carmeliet, P. & Watson, C. J. Stem cell marker Prominin-1 regulates branching morphogenesis, but not regenerative capacity, in the mammary gland. Dev Dyn.; Author Manuscr. 240, 674â€“681 (2012).	mouse	IHC (frozen)
Langbein, L. et al. Characterization of a Novel Human Type II Epithelial Keratin K1b, Specifically Expressed in Eccrine Sweat Glands. J. Invest. Dermatol. 125, 428â€“444 (2005).	human	IHC (frozen)