

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
UniproID	A1XEA5 (Bovine),E2REU6 (Dog, Canis familiaris),P05783 (Human),P05784 (Mouse),F1SGG1 (Pig),H0UYZ2 (Guinea pig),Q5BJY9 (Rat),W5Q5M3 (Sheep)
Synonym	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

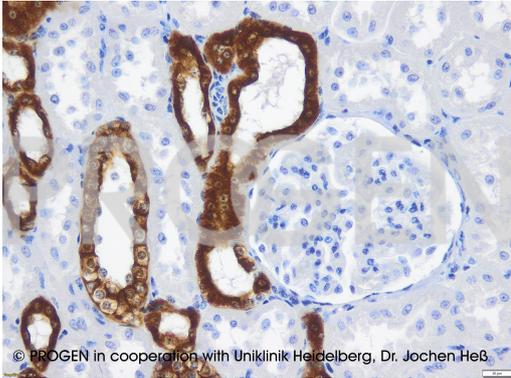
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use (microwave treatment recommended)
Western Blot (WB)	1:10-1:50

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.

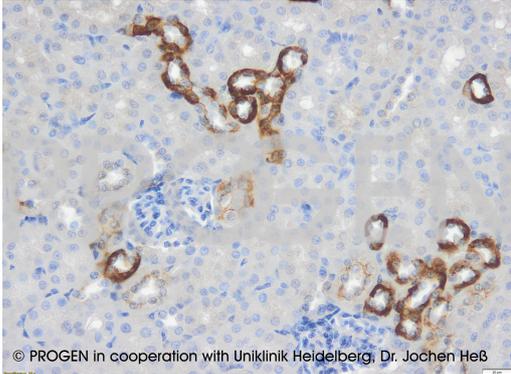
Tested cultured cell lines: MCF-7.

Product images



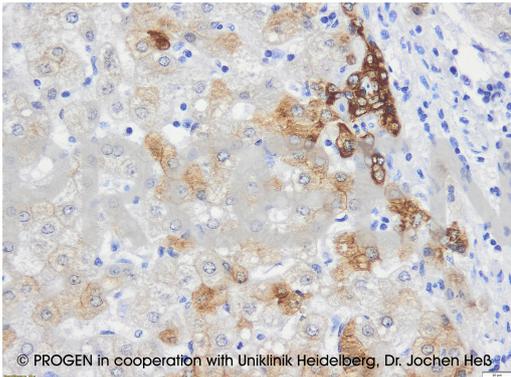
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IHC of bovine kidney (courtesy of J.Heß, University Hospital Heidelberg)



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



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

References

Publication	Species	Application
Isozaki, Y. et al. The Rho-guanine nucleotide exchange factor Solo decelerates collective cell migration by modulating the Rho-ROCK pathway and keratin networks. Mol Biol Cell. 31, 741-752(2020).	dog	WB
Hojo, M. et al. A histopathological analysis of spontaneous neoplastic and non-neoplastic lesions in aged male RccHan:WIST rats. J.Toxicol.Pathol. 33, 47-55 (2020)	rat	IHC (paraffin)
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)
Norum, J. et al. GLI1-induced mammary gland tumours are transplantable and maintain major molecular features. Int.J.Cancer. , (2019)	mouse	IHC (paraffin)
Ordonez, L. et al. Rapid activation of epithelial-mesenchymal transition drives PARP inhibitor resistance in Brca2-mutant mammary tumours. Oncotarget. 10, 2586-2606 (2019)	mouse	IHC (paraffin)