Product datasheet

anti-Keratin K18 mouse monoclonal, Ks18.04, liquid, purified, sample

Short overview

Cat. No.	690028S
Quantity	200 µl (50 µg/ml)
Concentration	50 µg/ml (10 µg)

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	Ks18.04
Immunogen	Human keratin K18 from HeLa cytoskeletal preparation
Formulation	PBS buffer, pH 7.4 with 0.09% sodium azide and 0.5% BSA
UniprotID	A1XEA5 (Bovine),P05783 (Human),P05784 (Mouse),F1SGG1 (Pig),H0UYZ2 (Guinea pig),Q5BJY9 (Rat),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

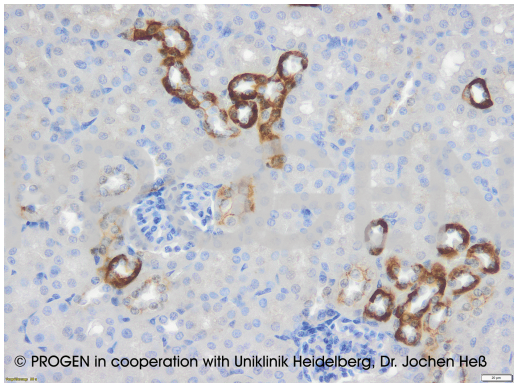
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:20-1:200 (0.25-2.5 µg/ml)
Immunohistochemistry (IHC) - paraffin	1:20-1:200 (0.25-2.5 µg/ml; microwave treatment recommended)
Western Blot (WB)	1:100-1:500 (0.1 µg/ml-0.5 µg/ml)

Background

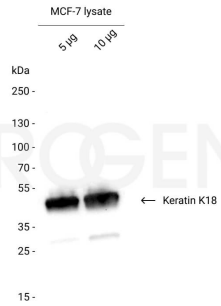
Ks18.04 represents an excellent marker to discriminate simple epithelia from those of different origin. Tumors specifically detected: all adenocarcinoma; mammary carcinoma, urinary bladder carcinoma, undifferentiated carcinoma, cervix carcinoma, hepatocellular carcinoma. Polypeptide reacting: Mr 45,000 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.

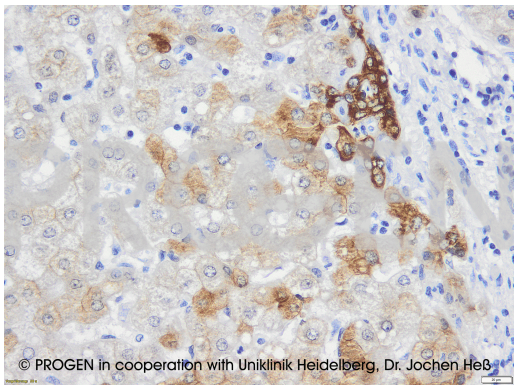
Product images



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



Western blot analysis of human MCF-7 cell lysate with anti-Keratin K18 antibody. Western blot analysis was performed on 10 µg or 5 µg of MCF-7 lysate. Cells were lysed in PBS by homogenization. The PVDF membrane was blocked with 5% dry milk in PBST for 1 h at RT. The primary antibody anti-Keratin K18 mouse monoclonal, Ks18.04 (Cat. No. 690028) was diluted in blocking buffer (antibody concentration 0.25 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 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)