

Product datasheet

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

Short overview

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|----------------------|---|
| Cat. No. | 61028 |
| Quantity | 50 µg |
| Concentration | 50 µg/ml after reconstitution with 1 ml dist. water |

Product description

| | |
|--------------------------------------|---|
| Host | Mouse |
| Antibody Type | Monoclonal |
| Isotype | IgG1 |
| Clone | Ks18.04 |
| Immunogen | Human keratin K18 from HeLa cytoskeletal preparation |
| Formulation | Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4) |
| UniprotID | A1XEA5 (Bovine),P05783 (Human),P05784 (Mouse),F1SGG1 (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 before reconstitution | 2-8°C until indicated expiry date |
| 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, WB |
| Reactivity | Bovine, Dog, Hamster, Human, Mouse, Pig, Rat, Sheep, Trout, Zebrafish |

Applications

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|--|--|
| 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

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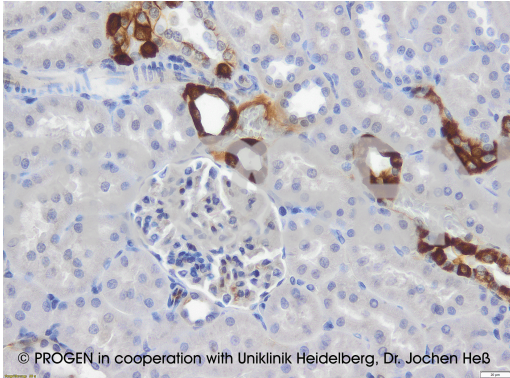
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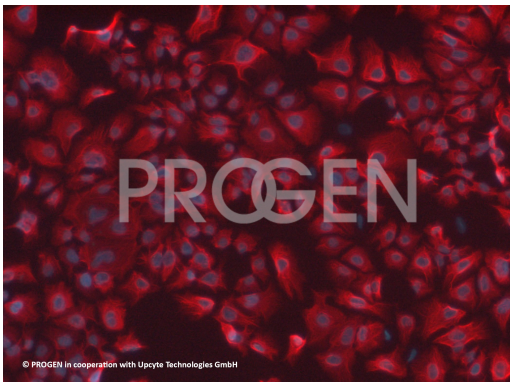
cells of many squamous, nonepidermal epithelia.

Tested cultured cell lines: MCF-7.

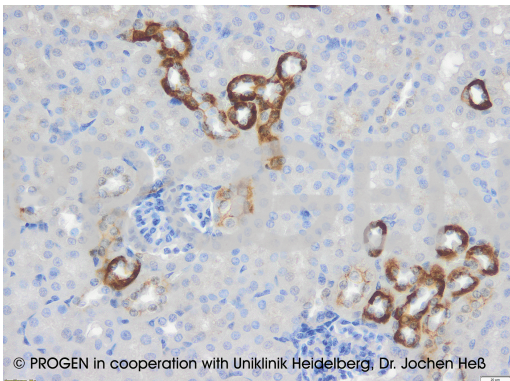
Product images



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



Upcyte hepatocytes, dilution 1:50 (courtesy of upcyte technologies GmbH)



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

References

| Publication | Species | Application |
|---|---------|-------------|
| Gross, A. et al. Desmoplakin Maintains Transcellular Keratin Scaffolding and Protects From Intestinal Injury. Cmg 13, 1181â€“1200 (2022). | Mouse | WB |