

Product datasheet

anti-Keratin K7 mouse monoclonal, Ks7.18, liquid, purified

Short overview

Cat. No.	690025
Quantity	1 ml (50 µg/ml)
Concentration	50 µg/ml (50 µg)

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	Ks7.18
Immunogen	Cytoskeletal proteins from cultured HeLa cells
Formulation	Contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4
UniprotID	Q29S21 (Bovine), P08729 (Human), A0A287ASI0 (Pig), H0VIA2 (Guinea pig), A0A6P7DW90 (Sheep)
Synonym	Keratin, type II cytoskeletal 7, Cytokeratin-7, CK-7, Keratin-7, K7, Sarcolectin, Type-II keratin Kb7, KRT7, SCL
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, Human, Pig, Sheep
No reactivity	Dog, Mouse, Rabbit, Rat

Applications

Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:50-1:250 (0.2-1 µg/ml)
Immunohistochemistry (IHC) - paraffin	1:50-1:250 (0.2-1 µg/ml, protease treatment and/or microwave treatment recommended)
Western Blot (WB)	1:1,000-1:2,000 (25-50 ng/ml)

Background

Ks7.18 represents an excellent marker for the discrimination of specific subtypes of adenocarcinoma: e.g. adenocarcinoma of pancreas, bile duct carcinoma and transitional carcinoma of bladder are stained, whereas hepatocellular and prostate carcinomas are negative. Detects specific subtypes of adenocarcinomas: adenocarcinoma of pancreas, gallbladder, lung, cervix; cholangio carcinoma of liver; ductal and lobular carcinoma of breast; carcinomas of ovary; transitional cell carcinoma of bladder; mesothelioma; negative with most cases of hepatocellular carcinoma. In colorectal carcinoma early stages are reported to be negative but advanced stages of tumor development are positive for keratin K7 expression.

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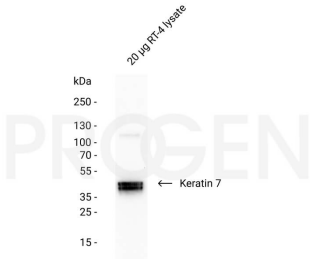
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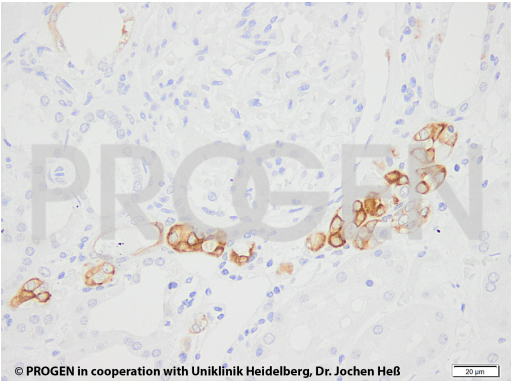
Occasionally, staining of blood vessel walls, particularly of endothelial cells may be observed. Reacts with Mr 54,000 polypeptide (keratin K7; formerly also designated cytokeratin 7) of human glandular epithelia.

Reactivity on cultured cell lines: HeLa, RT 112, T24, BT-20, CAMA-1, Detroit 562, (MCF-7 and HT-29 are negative).

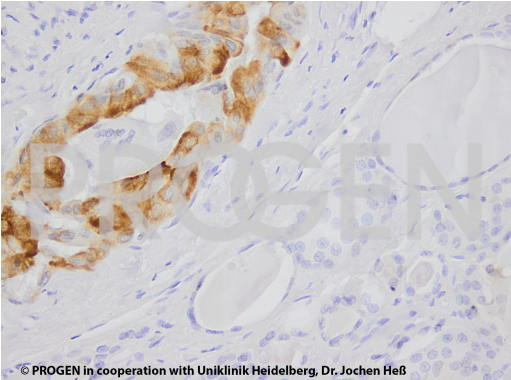
Product images



Western blot analysis of RT-4 lysate with anti-Keratin K7 antibody. Western blot analysis was performed on 20 µg RT-4 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 K7 mouse monoclonal, Ks7.18 (Cat. No. 690025) was diluted in blocking buffer (antibody concentration 50 ng/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 Pierce™ ECL Western Blotting Substrate.



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



Human thyroid carcinoma (courtesy of J.Heß, University Hospital Heidelberg)

References

Publication	Species	Application
Demirkesen, C., Hoede, N. & Moll, R. Epithelial markers and differentiation in adnexal neoplasms of the skin: an immunohistochemical study including individual cytokeratins. J. Cutan. Pathol. 22, 518–535 (1995).	human	IHC (paraffin)
Langbein, L., Yoshida, H., Praetzel-Wunder, S., Parry, D. A. & Schweizer, J. The Keratins of the Human Beard Hair Medulla: The Riddle in the Middle. J. Invest. Dermatol. 130, 55–73 (2010).	human	IHC (frozen)
Alam, C. M. et al. Decreased levels of keratin 8 sensitize mice to streptozotocin-induced diabetes. Acta Physiol (Oxf). 224, e13085(2018).	mouse	IHC (frozen)/IF