

## Product datasheet

### anti-Keratin K7 mouse monoclonal, Ks7.18, lyophilized, purified

#### Short overview

<b>Cat. No.</b>	61025
<b>Quantity</b>	50 µg
<b>Concentration</b>	50 µg/ml after reconstitution with 1 ml dist. water

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Clone</b>	Ks7.18
<b>Immunogen</b>	Cytoskeletal proteins from cultured HeLa cells
<b>Formulation</b>	Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4)
<b>UniprotID</b>	Q29S21 (Bovine), P08729 (Human), A0A287ASI0 (Pig), H0VIA2 (Guinea pig), A0A6P7DW90 (Sheep)
<b>Synonym</b>	Keratin, type II cytoskeletal 7, Cytokeratin-7, CK-7, Keratin-7, K7, Sarcolectin, Type-II keratin Kb7, KRT7, SCL
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage before reconstitution</b>	2-8°C until indicated expiry date
<b>Storage after reconstitution</b>	Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	ICC/IF, IHC, WB
<b>Reactivity</b>	Bovine, Human, Pig, Sheep
<b>No reactivity</b>	Dog, Mouse, Rabbit, Rat

#### Applications

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

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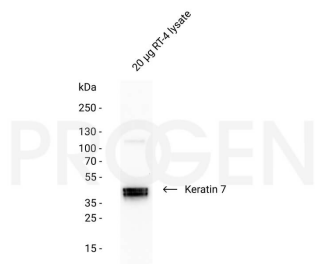
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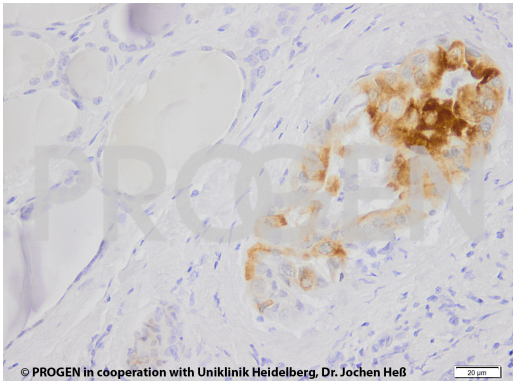
carcinoma and transitional carcinoma of bladder are stained, whereas hepatocellular and prostate carcinomas are negative. Detects specific subtypes of adenocarcinomas: adenocarcinoma of pancreas, gallbladder, lung, cervix; cholangio carcinoma of liver; ductal and lobular carcinoma of breast; carcinomas 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. 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).

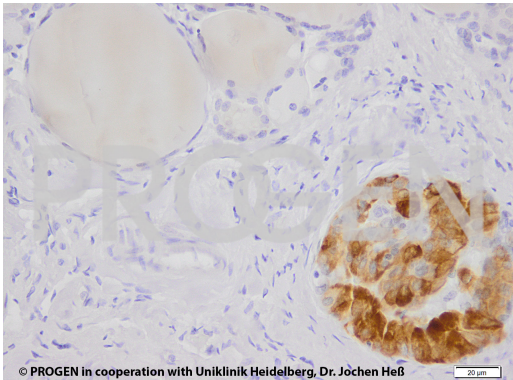
Product images



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



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

## References

Publication	Species	Application
<a href="#">Alam, C. M. et al. Decreased levels of keratin 8 sensitize mice to streptozotocin-induced diabetes.Â Acta Physiol (Oxf).224,e13085(2018).</a>	mouse	IHC (frozen)/IF
<a href="#">Langbein, L., Yoshida, H., Praetzel-Wunder, S., Parry, D. A. &amp; Schweizer, J. The Keratins of the Human Beard Hair Medulla: The Riddle in the Middle. J. Invest. Dermatol. 130, 55â€“73 (2010).</a>	human	IHC (frozen)
<a href="#">Demirkesen, C., Hoede, N. &amp; Moll, R. Epithelial markers and differentiation in adnexal neoplasms of the skin: an immunohistochemical study including individual cytokeratins. J. Cutan. Pathol. 22, 518â€“35 (1995).</a>	human	IHC (paraffin)