

Product datasheet

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

Short overview

 Cat. No.
 61025

 Quantity
 50 μg

Concentration 50 μg/ml after reconstitution with 1 ml dist. water

Product description

HostMouseAntibody TypeMonoclonalIsotypeIgG1CloneKs7.18

Immunogen Cytoskeletal proteins from cultured HeLa cells

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 Q29S21 (Bovine), P08729 (Human), A0A287ASI0 (Pig), H0VIA2 (Guinea pig), A0A6P7DW90

(Sheep)

Synomym 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 before 2-8°C until indicated expiry date

reconstitution

Storage after Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles

reconstitution

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 dependentImmunohistochemistry (IHC) - frozen1:50-1:250 (0.2-1 μg/ml)

Immunohistochemistry (IHC) - paraffin 1:50-1:250 (0.2-1 μg/ml, protease treatment and/or microwave

treatment recommended)

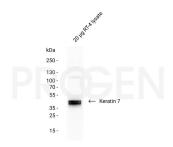
Western Blot (WB) 1:1,000-1:2,000 (25-50 ng/ml)

Background

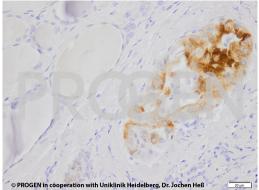
Ks7.18 represents an excellent marker for the discrimination of specific subtypes of adenocarcinoma: e.g. adenocarcinoma of pancreas, bile duct carcinoma and transitional carcinoma of bladder are stained, whereas hepatocellular and prostate carcinomas are negative. Detects specific subtypes of adenocarcinomas: adenocarcimona 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).

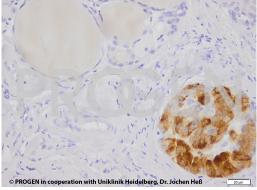
Product images



Western blot analysis of RT-4 lysate with anti-Keratin K7 antibody. Western blot analysis was performed on 20 μ g 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 lgG goat polyclonal, HRP conjugate was also diluted in blocking buffer (antibody concentration 0.2 μ g/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using PierceTM 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
Demirkesen, C., Hoede, N. & Moll, R. Epithelial markers and	human	IHC (paraffin)
differentiation in adnexal neoplasms of the skin: an		
immunohistochemical study including individual cytokeratins.		
J. Cutan. Pathol. 22, 518–35 (1995).		
Langbein, L., Yoshida, H., Praetzel-Wunder, S., Parry, D. A. &	human	IHC (frozen)
Schweizer, J. The Keratins of the Human Beard Hair Medulla:		
The Riddle in the Middle. J. Invest. Dermatol. 130, 55–73		
<u>(2010).</u>		
Alam, C. M. et al. Decreased levels of keratin 8 sensitize mice	mouse	IHC (frozen)/IF
to streptozotocin-induced diabetes. Acta Physiol		
(Oxf).224,e13085(2018).		