Product datasheet

anti-Keratin K19 mouse monoclonal, Ks19.2 (Z105.6), lyophilized, purified

Short overview

Cat. No.	61029
Quantity	50 µg
Concentration	50 µg/ml after reconstitution with 1 ml dist. water

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2b
Clone	Ks19.2 (Z105.6)(also published as BM 19.21, MAK 19.21)
Immunogen	Keratin K19 of Mr 40 000; from cultured human MCF-7 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	P08728 (Bovine), P08727 (Human), Q63279 (Rat)
Synomym	Keratin, type I cytoskeletal 19, Cytokeratin-19, CK-19, Keratin-19, K19, KRT19
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	ELISA, ICC/IF, IHC, WB
Reactivity	Bovine, Human, Rabbit, Rat
No reactivity	Chicken, Mouse, Woodchuck, Xenopus

Applications

ELISA	Assay dependent
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:10-1:50 (1-5 µg/ml)
Immunohistochemistry (IHC) - paraffin	1:10-1:500 (0.1-5 µg/ml; microwave treatment recommended)
Western Blot (WB)	1:50-1:500 (0.1-1 µg/ml)

Background

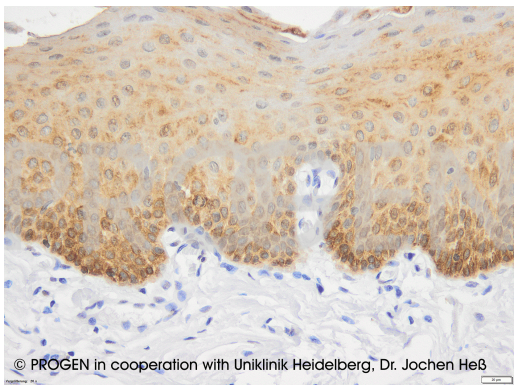
Ks 19.2 represents an excellent marker to discriminate glandular epithelial carcinoma from those of different origin. No reaction with hepatocellular carcinoma! Polypeptide Reacting: Mr 40,000 polypeptide (keratin K19; formerly also designated cytokeratin 19) of human

glandular epithelia. The epitope has been localized on aa. 352-368 (VRADSERQNQEYQRLMD) of the alpha-helical fragment.

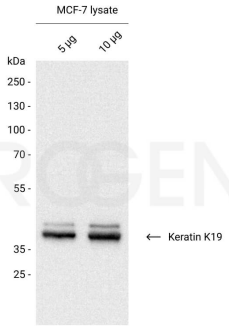
Tumors specifically detected: all tested adenocarcinoma; cholangio carcinoma of liver; renal cell carcinoma; transitional cell carcinoma of the bladder; ovary carcinoma; squamous cell carcinoma of cervix, bronchus and lung (intermediate type); mesothelioma; carcinoid tumor of bronchus; breast carcinoma; thymoma.

Reactivity on cultured cell lines: MCF-7.

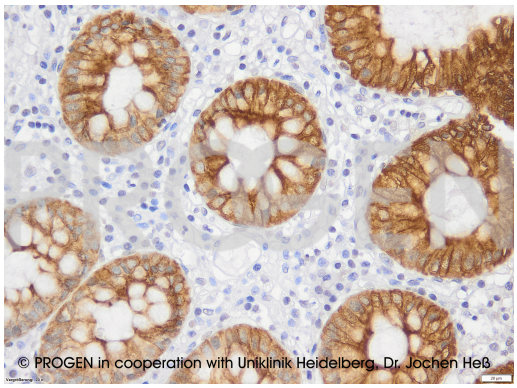
Product images



IHC of human oral mucosa (courtesy of J.Heß, University Hospital Heidelberg)



Western blot analysis of human MCF-7 cell lysate with anti-Keratin K19 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 K19 mouse monoclonal, Ks19.2 (Z105.6; Cat. No. 690029) was diluted in blocking buffer (antibody concentration 0.1 µg/ml) and incubated for 1 h at RT. The secondary antibody goat anti-mouse IgG 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 colon (courtesy of J.Heß, University Hospital Heidelberg)

References

Publication	Species	Application
Qiu, R. et al. Transplantation of fetal liver tissue coated by ultra-purified alginate gel over liver improves hepatic function in the cirrhosis rat model. Sci.Rep. 10, 8231 (2020)	rat	IHC (frozen)
Sawitza, I., Kordes, C., GÃ¶tze, S., Herebian, D. & HÃ¤ussinger, D. Bile acids induce hepatic differentiation of mesenchymal stem cells. Sci. Rep. 5, (2015).	rat	ICC-IF
Langbein, L. et al. Characterization of a Novel Human Type II Epithelial Keratin K1b, Specifically Expressed in Eccrine Sweat Glands. J. Invest. Dermatol. 125, 428â€“444 (2005).	human	IHC (frozen)
HÃ¶chtlen-Vollmar, W. et al. Occult epithelial tumor cells detected in bone marrow by an enzyme immunoassay specific for cytokeratin 19. Int. J. cancer 70, 396â€“400 (1997).	human	ELISA
Dittadi, R. et al. Standardization of assay for cytokeratin-related tumor marker CYFRA21.1 in urine samples. Clin. Chem. 42, 1634â€“8 (1996).	human	ELISA