

Product datasheet

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

Short overview

Cat. No.	690029
Quantity	1 ml (50 µg/ml)
Concentration	50 µg/ml (50 µg)

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	PBS buffer, pH 7.4 with 0.09% sodium azide and 0.5 % BSA
UniprotID	P08728 (Bovine), P08727 (Human), Q63279 (Rat)
Synonym	Keratin, type I cytoskeletal 19, Cytokeratin-19, CK-19, Keratin-19, K19, KRT19
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	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)

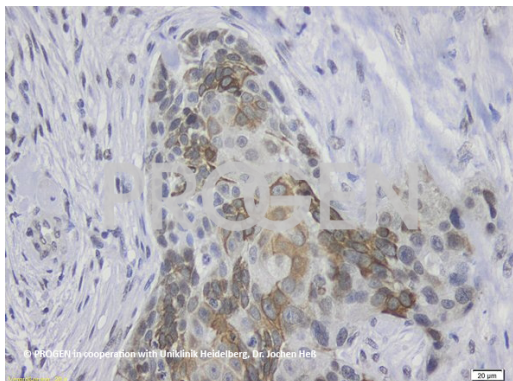
Background

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.

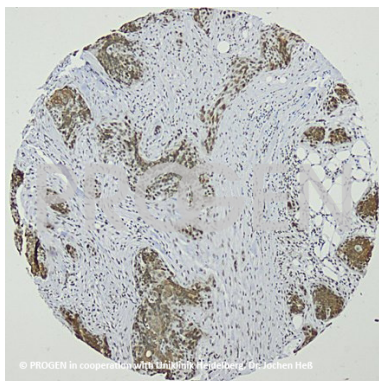
Tumors specifically detected: all tested adenocarcinoma; cholangio carcinoma of liver; renal cell carcinoma; transitional cell carcinoma of the bladder; ovary carcinoma; squamous cell carcinoma of cervix, bronchus and lung (intermediate type); mesothelioma; carcinoid tumor of bronchus; breast carcinoma;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

Reactivity on cultured cell lines: MCF-7.

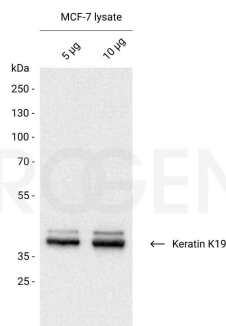
Product images



Human head and neck squamous-cell carcinoma (HNSCC) (courtesy of J.Heß, University)



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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 Pierce™ ECL Western Blotting Substrate.

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., Gäßler, S., Herebian, D. & Häussinger, 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)
Hächtlen-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