

## Product datasheet

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

### Short overview

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

### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG2b
<b>Clone</b>	Ks19.2 (Z105.6)(also published as BM 19.21, MAK 19.21)
<b>Immunogen</b>	Keratin K19 of Mr 40 000; from cultured human MCF-7 cells
<b>Formulation</b>	PBS buffer, pH 7.4 with 0.09% sodium azide and 0.5 % BSA
<b>UniprotID</b>	P08728 (Bovine), P08727 (Human), Q63279 (Rat)
<b>Synonym</b>	Keratin, type I cytoskeletal 19, Cytokeratin-19, CK-19, Keratin-19, K19, KRT19
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage</b>	Short term 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>	ELISA, ICC/IF, IHC, WB
<b>Reactivity</b>	Bovine, Human, Rabbit, Rat
<b>No reactivity</b>	Chicken, Mouse, Woodchuck, Xenopus

### Applications

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

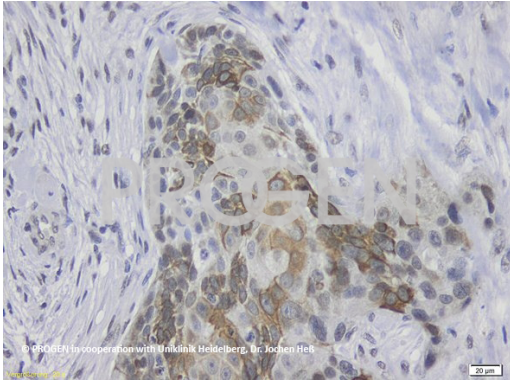
### Background

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.

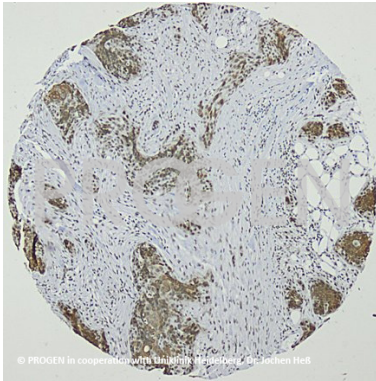
Tumors specifically detected: all tested adenocarcinoma; cholangio carcinoma of liver; renal cell carcinoma; transitional cell carcinoma of the bladder; ovary carcinoma; squamous cell carcinoma of cervix, bronchus and lung (intermediate type); mesothelioma; carcinoid tumor of bronchus; breast carcinoma;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

Reactivity on cultured cell lines: MCF-7.

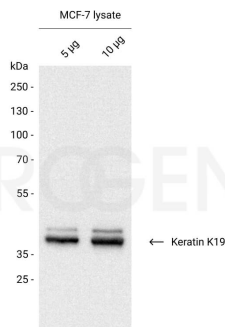
## Product images



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



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



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
<a href="#">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)</a>	rat	IHC (frozen)
<a href="#">Sawitza, I., Kordes, C., Gäßler, S., Herebian, D. &amp; Häussinger, D. Bile acids induce hepatic differentiation of mesenchymal stem cells. Sci. Rep. 5, (2015).</a>	rat	ICC-IF
<a href="#">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).</a>	human	IHC (frozen)
<a href="#">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).</a>	human	ELISA
<a href="#">Dittadi, R. et al. Standardization of assay for cytokeratin-related tumor marker CYFRA21.1 in urine samples. Clin. Chem. 42, 1634â€“8 (1996).</a>	human	ELISA