

## Product datasheet for **UM500003**

### Cytokeratin 19 (KRT19) Mouse Monoclonal Antibody [Clone ID: UMAB3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB3
Applications:	10k-ChIP, IF, IHC, WB
Recommended Dilution:	WB 1:1000, IHC 1:50, IF 1:100
Reactivity:	Human, Dog
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant fragment expressed in E.coli corresponding to amino acids 240-390 of human CK19
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	43.9 kDa
Gene Name:	Homo sapiens keratin 19 (KRT19), mRNA.
Database Link:	<a href="#">NP_002267</a> <a href="#">Entrez Gene 100685481 Dog</a> <a href="#">Entrez Gene 3880 Human</a> <a href="#">P08727</a>



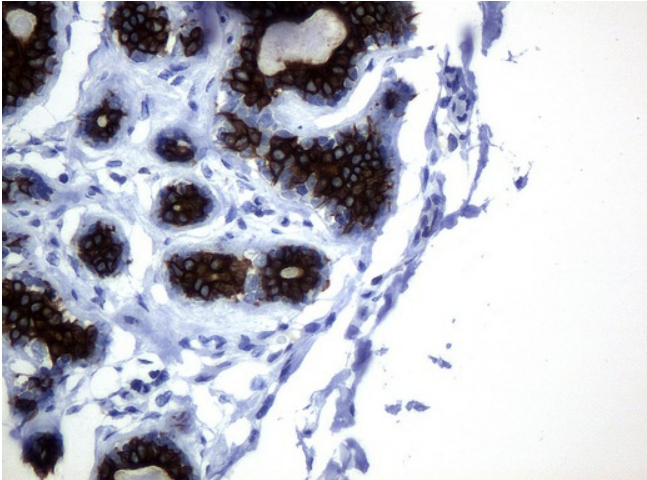
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**Background:**

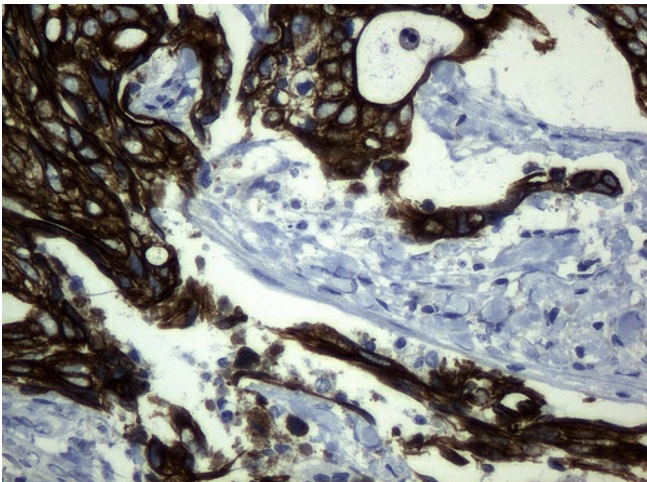
Keratin 19 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelops the developing epidermis.

**Synonyms:**

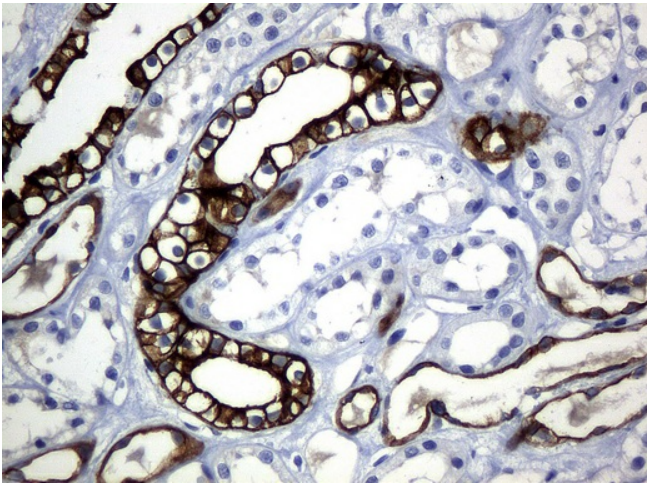
CK19; K1CS; K19

**Product images:**

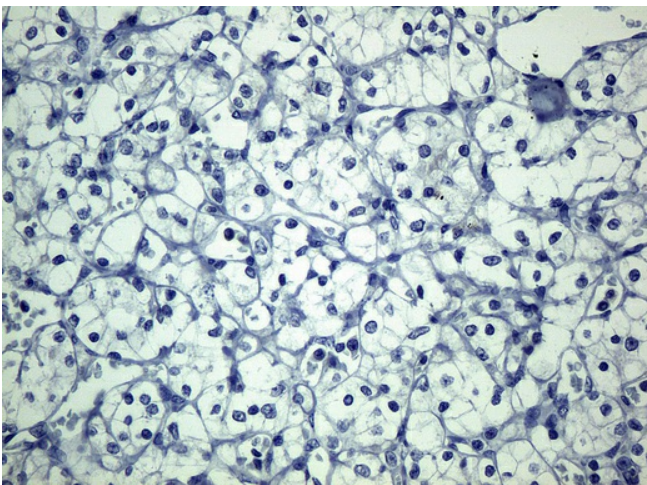
Immunohistochemical staining of paraffin-embedded breast tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



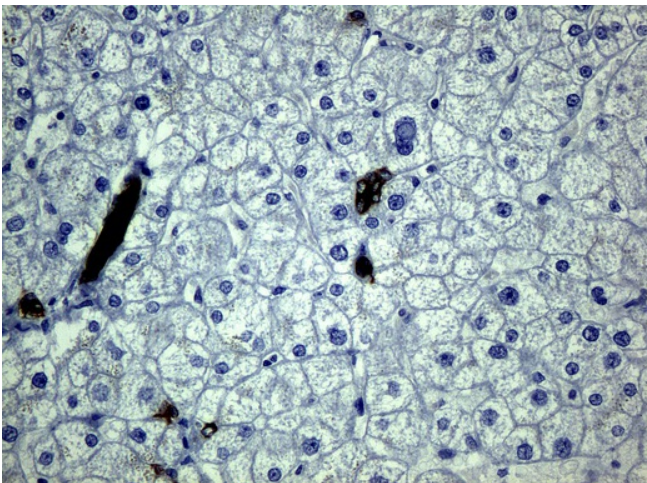
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of breast tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded Kidney tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

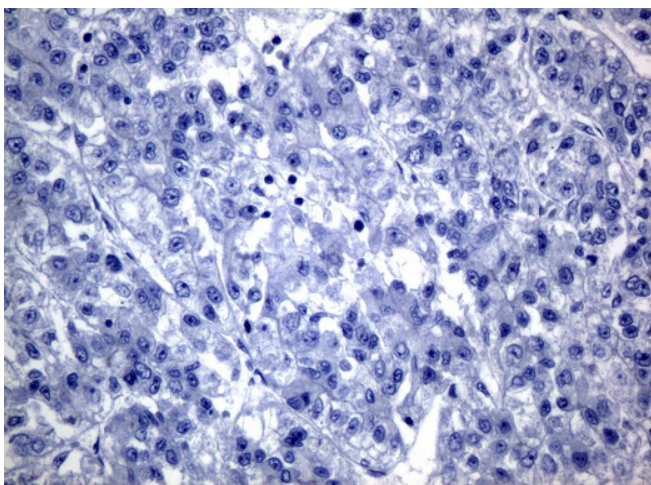


Immunohistochemical staining of paraffin-embedded Carcinoma of kidney tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

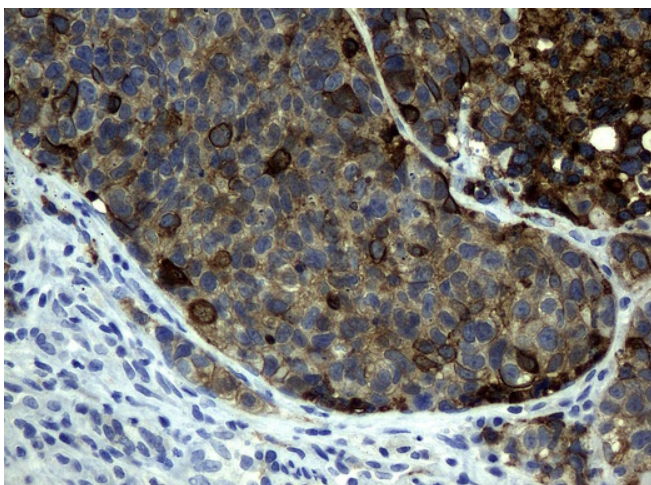


Immunohistochemical staining of paraffin-embedded liver tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

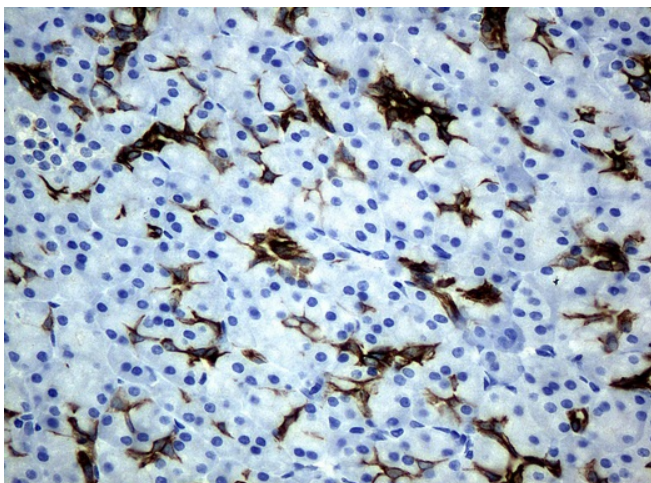




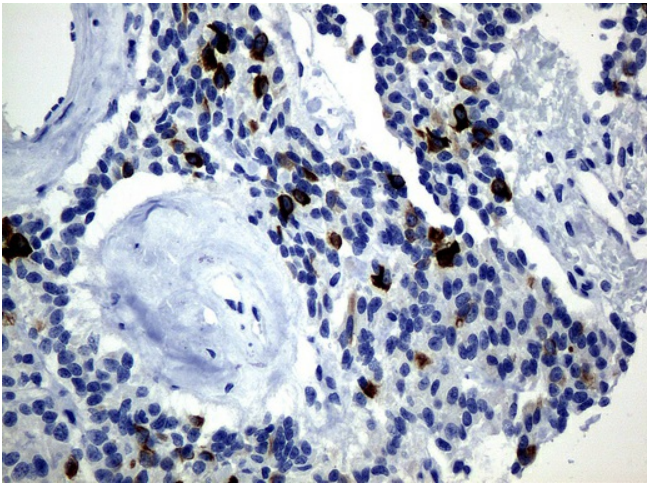
Immunohistochemical staining of paraffin-embedded Carcinoma of liver tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



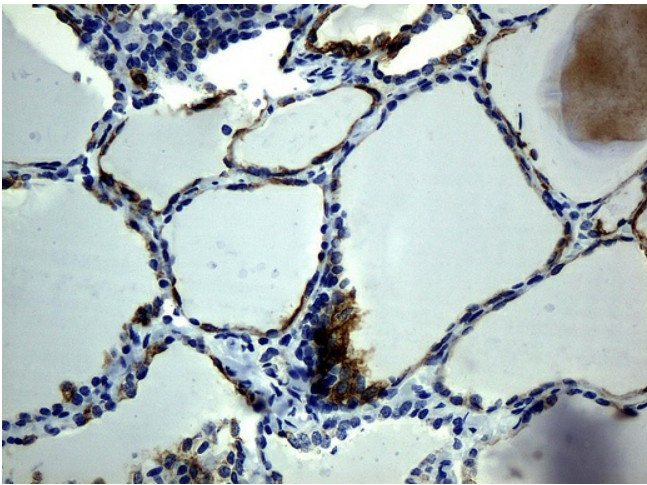
Immunohistochemical staining of paraffin-embedded Carcinoma of lung tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



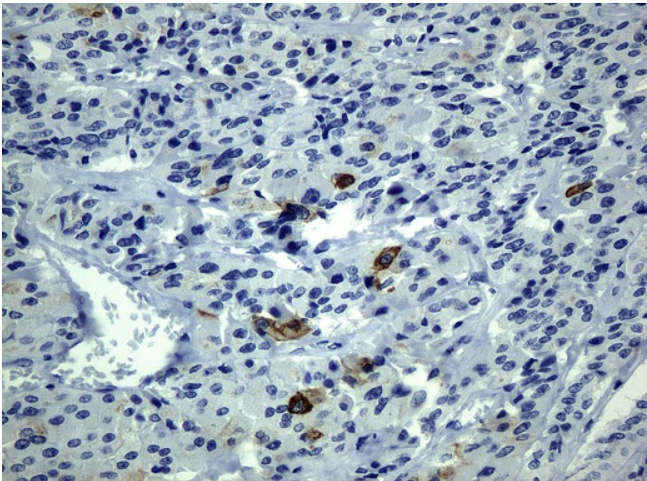
Immunohistochemical staining of paraffin-embedded pancreas tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded Carcinoma of pancreas tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

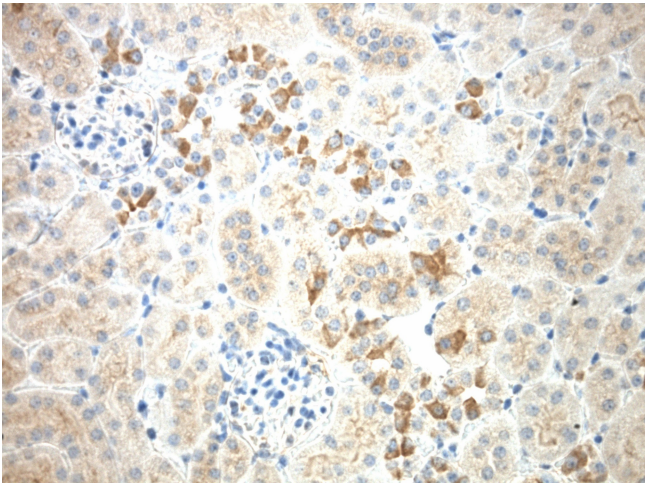


Immunohistochemical staining of paraffin-embedded thyroid tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

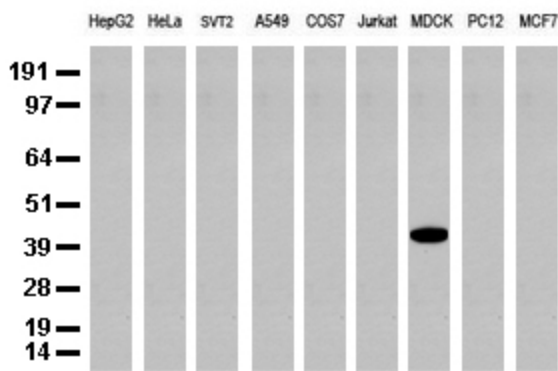


Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB3, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)

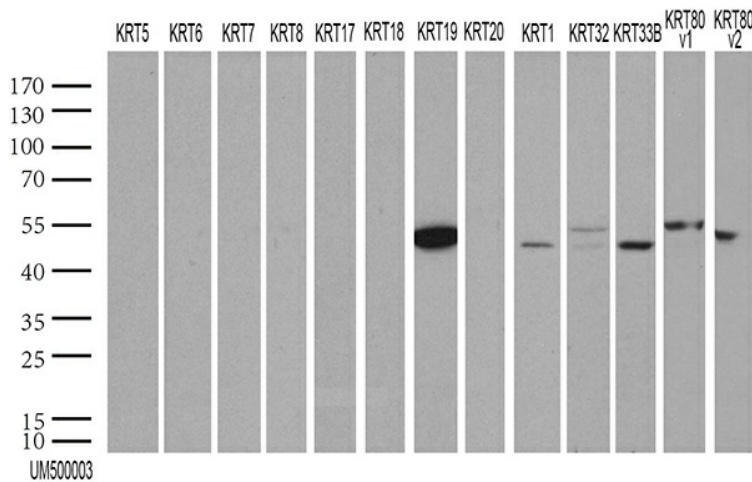




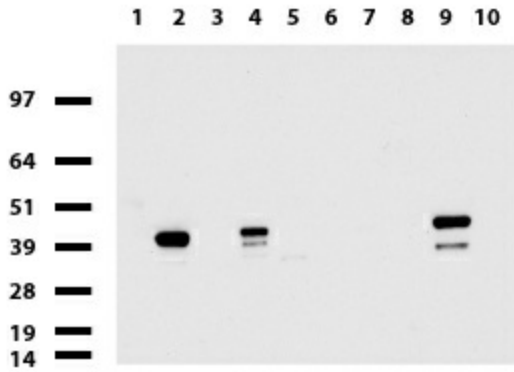
Immunohistochemical staining of paraffin-embedded mouse kidney tissue using anti-KRT19 (CYTOKERATIN 19) clone UMAB3 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500003 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



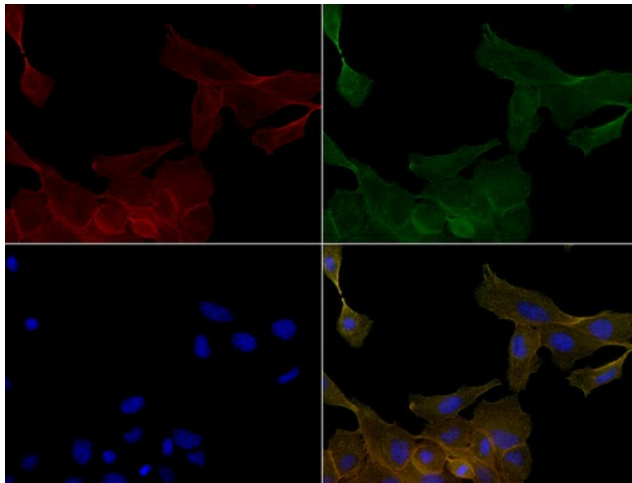
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-CK19 monoclonal antibody (Clone UMAB3) at 1:500.



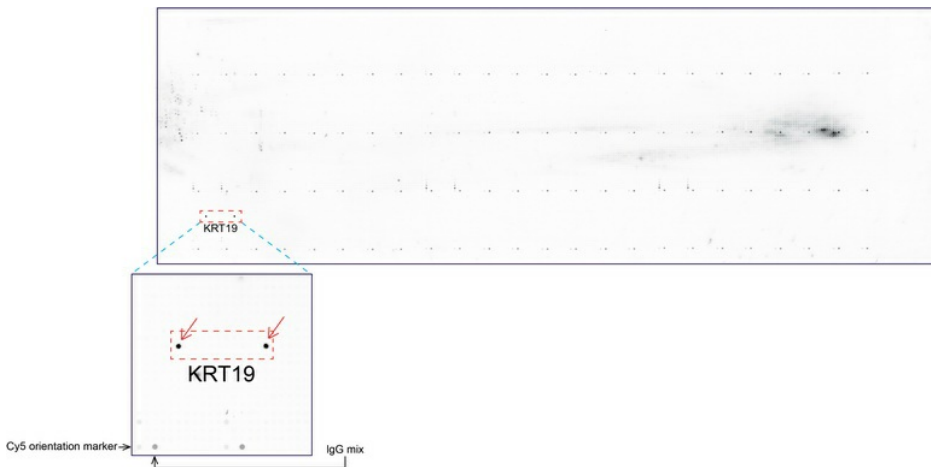
HEK293T were transfected with 55 different plasmids of CK cDNA (1, 2, 4, 5, 6a, 6b, 6c, 7, 8, 9, 12, 13, 14, 15, 16, 17, 18 v1, 18 v2, 19, 20, 24, 25, 26, 27, 28, 31, 32, 33a, 33b, 34, 35, 36, 37, 38, 39, 40, 71, 72 v1, 72 v3, 73, 74, 75, 76, 77, 78, 79, 80 v1, 80 v2, 81, 82, 83, 84, 85, 86 and 222) for 48hrs and lysed. Cell lysates (5 ug per lane) were separated by SDS-PAGE and blotted with KRT19 antibody. KRT12, 19, 25, 26, 27, 28 and 39 were positive, while all others were negative (1:500).



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen). Dilution: 1:500.



Immunofluorescent staining of MDCK cells using anti-CK19 mouse monoclonal antibody (UM500003, green). Actin filaments were labeled with TRITC-phalloidin (red), and nuclear with DAPI (blue). The three-color overlay image is located at the bottom-right corner.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-KRT19 mouse monoclonal antibody (Clone UMAB3). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification. These data show that UltraMAB anti-KRT19 (Clone UMAB3) very specifically recognizes KRT19 antigen on OriGene protein microarray chip.