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Product datasheet for UM500002CF

Cytokeratin 19 (KRT19) Mouse Monoclonal Antibody [Clone ID: UMAB2]

Product data:

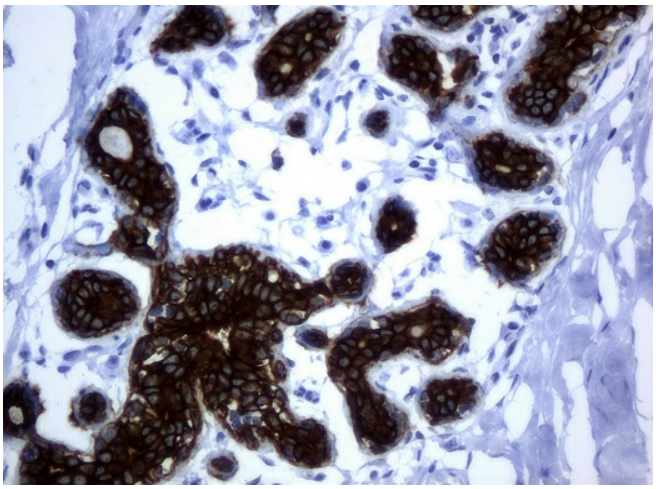
Product Type:	Primary Antibodies
Clone Name:	UMAB2
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:500~1000, IHC 1:50, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant fragment expressed in E.coli corresponding to amino acids 240-390 of human CK19
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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:	keratin 19
Database Link:	NP_002267 Entrez Gene 3880 Human P08727

View online »

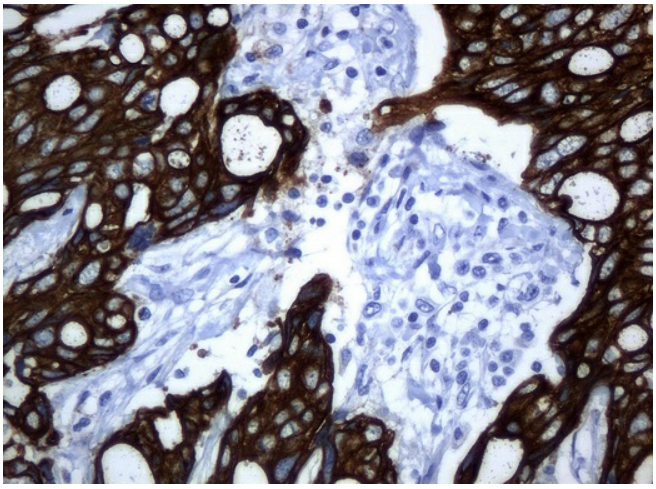
Background: Keratin 19 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs 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 envelopes the developing epidermis.

Synonyms: CK19; K1CS; K19

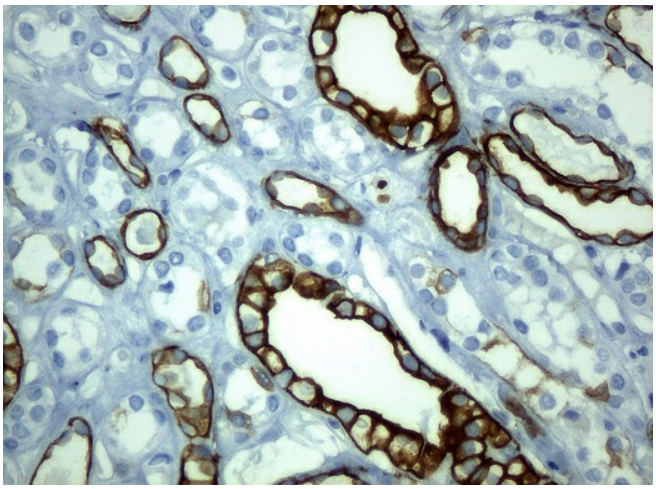
Product images:



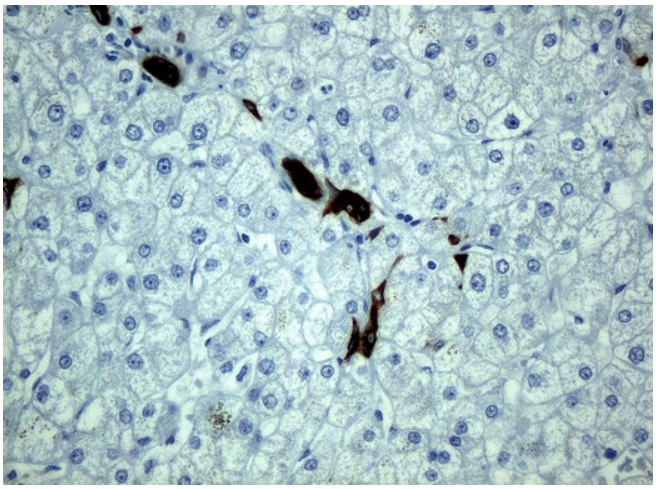
Immunohistochemical staining of paraffin-embedded breast tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



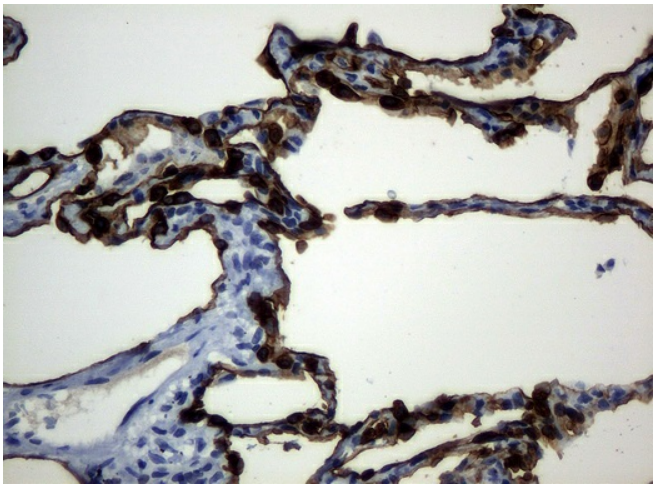
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of breast tissue using anti-KRT19 mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



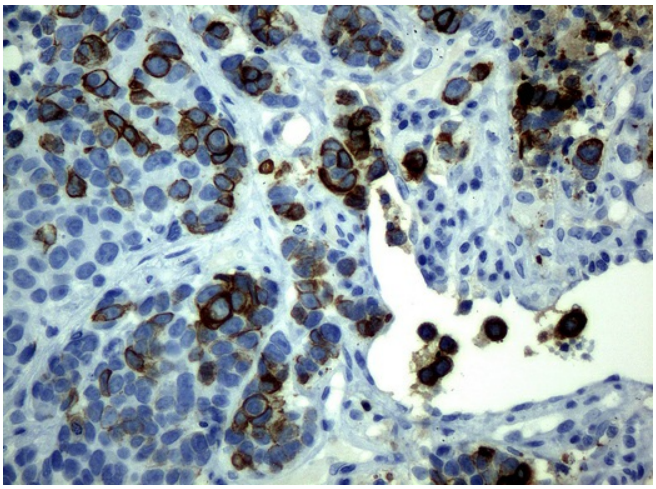
Immunohistochemical staining of paraffin-embedded Kidney tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



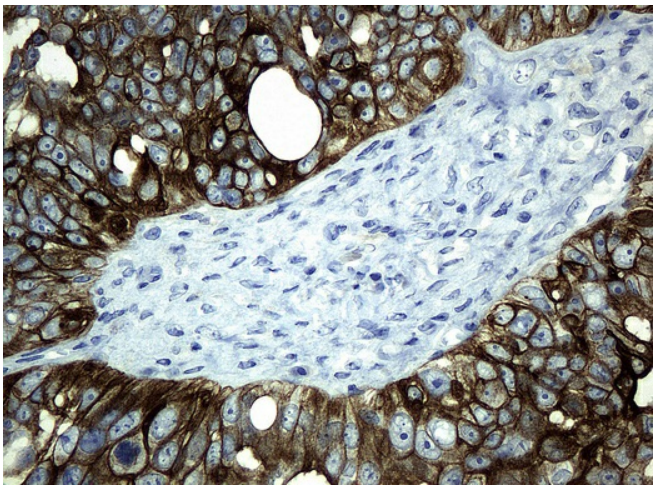
Immunohistochemical staining of paraffin-embedded human liver tissue using anti-KRT19 mouse monoclonal antibody. Anti-KRT19 clone UMAB2 was diluted 1:100; used heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min to produce strong staining on the bile duct and no staining in the hepatocytes.



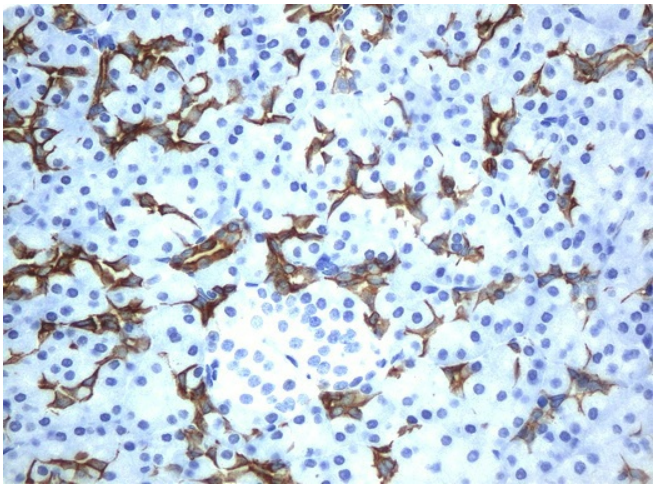
Immunohistochemical staining of paraffin-embedded lung tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



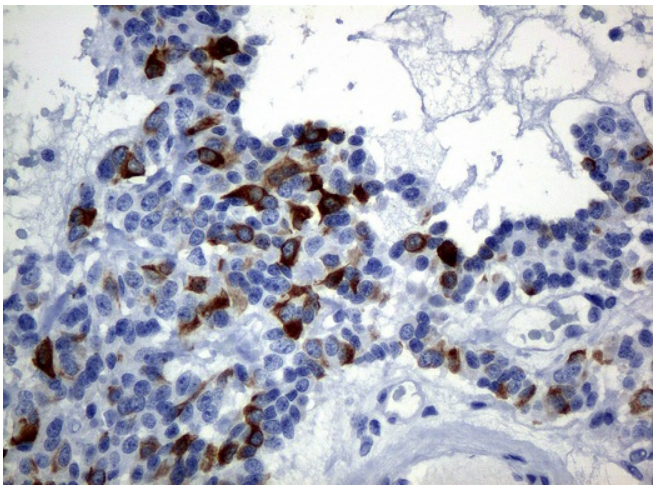
Immunohistochemical staining of paraffin-embedded Carcinoma of lung tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



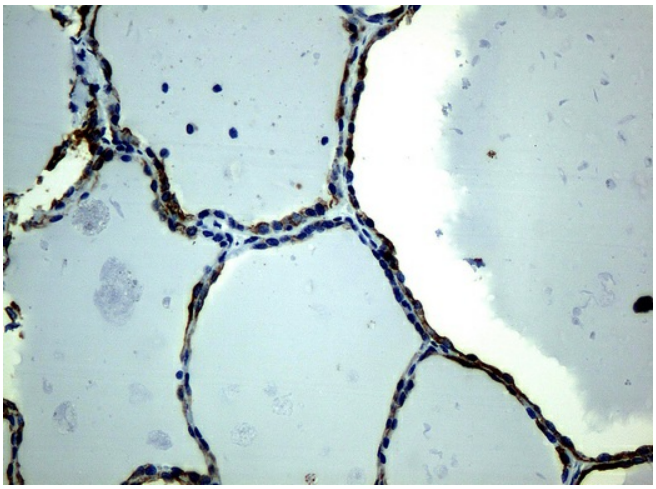
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



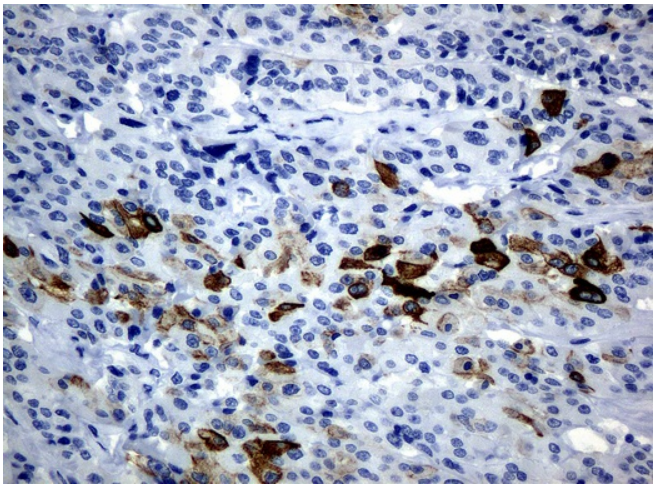
Immunohistochemical staining of paraffin-embedded human pancreas tissue using anti-KRT19mouse monoclonal antibody. Clone UMAB2 was diluted 1:100; used heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min to produce strong staining on the exocrine glandular cells and no staining in the Islets of Langerhans



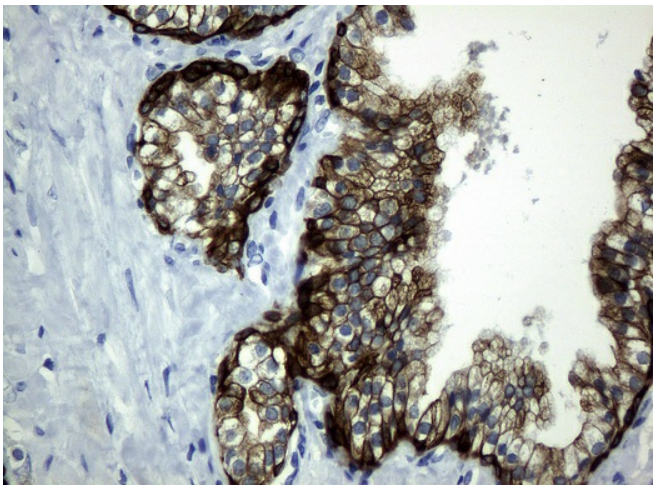
Immunohistochemical staining of paraffin-embedded Carcinoma of pancreas tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



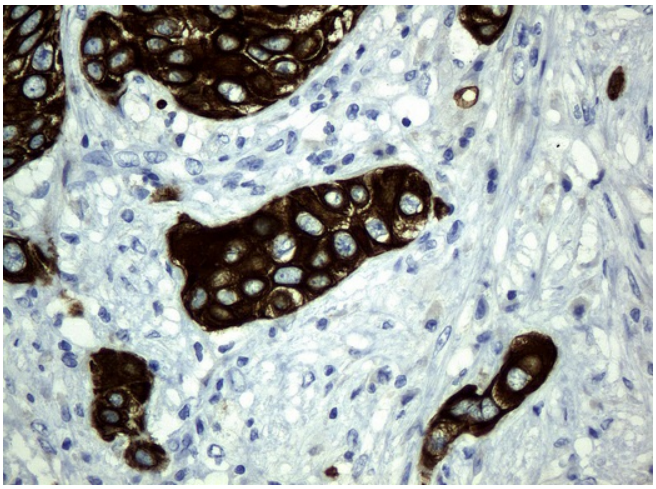
Immunohistochemical staining of paraffin-embedded thyroid tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



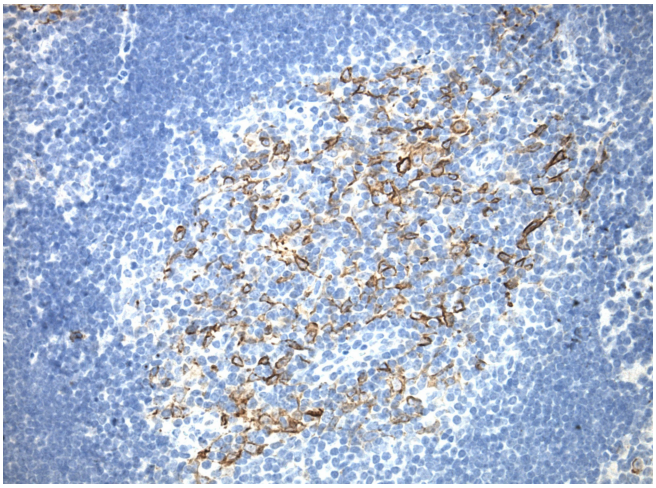
Immunohistochemical staining of paraffin-embedded Carcinoma of thyroid tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



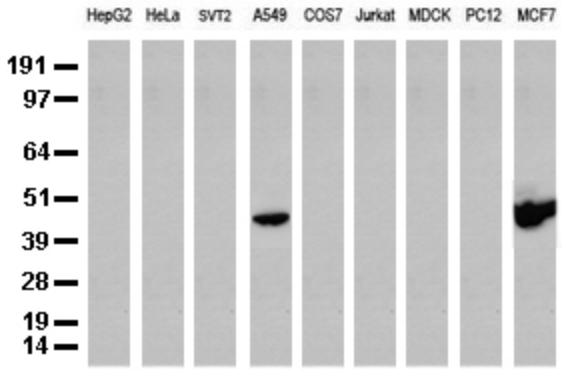
Immunohistochemical staining of paraffin-embedded Carcinoma of prostate tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



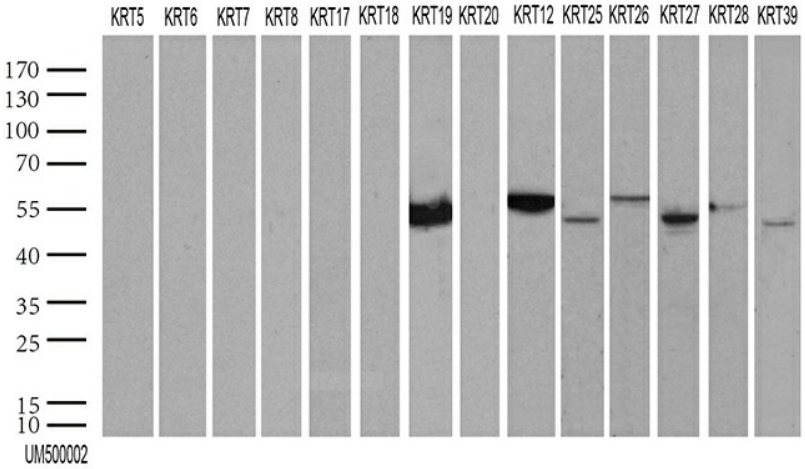
Immunohistochemical staining of paraffin-embedded Carcinoma of bladder tissue using anti-KRT19mouse monoclonal antibody. (Clone UMAB2, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded mouse spleen tissue using anti-KRT19 (CYTOKERATIN 19) clone UMAB2 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500002] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.

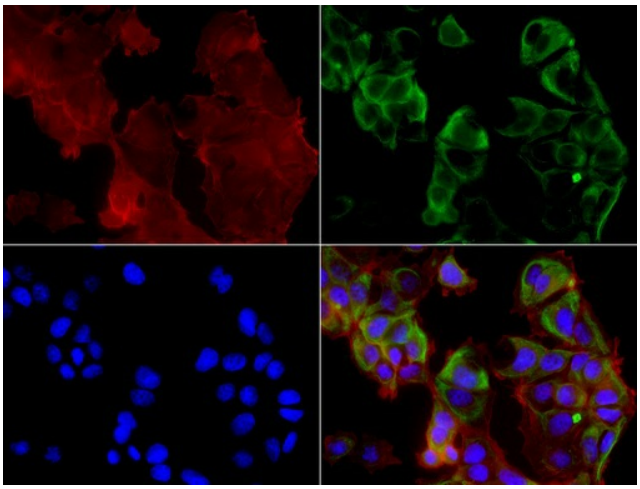


Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-CK19 monoclonal antibody (Clone UMAB2) at 1:500.



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 analysis of 10 different human tissue lysates (10ug) by using anti-CK19 monoclonal antibody (clone UMAB2, 1:500)



Immunofluorescent staining of MCF7 cells using anti-CK19 mouse monoclonal antibody ([UM500002], 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.