

# **Human Cytokeratin 17/19 Antibody**

Monoclonal Mouse IgG Clone # 1080201 Catalog Number: MAB11568

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects a synthetic peptide around aa 123 in Direct ELISA.		
Source	Monoclonal Mouse IgG Clone # 1080201		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Cytokeratin 17/19 containing synthetic peptide Accession # Q04695		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.		

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
	Recommended Concentration	Sample	
Western Blot	2 μg/mL	HeLa human cervical epithelial carcinoma cell line and HCC827 humar non-small cell lung cancer cell line	
Immunohistochemistry	3-25 μg/mL	Immersion fixed paraffin-embedded sections of human prostate and humar squamous cell carcinoma	
Simple Western	20 μg/mL	HeLa human cervical epithelial carcinoma cell line and MDA-MB-468 human breast cancer cell line	



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#### DATA

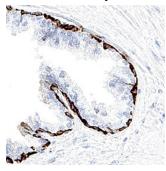
Western Blot

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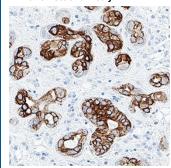
**Detection of Human** Cytokeratin 17/19 by Western Blot. Western Blot shows lysates of HeLa human cervical epithelial carcinoma cell line and HCC827 human non-small cell lung cancer cell line. PVDF membrane was probed with 2 µg/ml of Mouse Anti-Human Cvtokeratin 17/19 Monoclonal Antibody (Catalog # MAB11568) followed by HRPconjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). Specific bands were detected for Cvtokeratin 17 at approximately 48 kDa and for Cytokeratin 19 at approximately 41 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

#### Immunohistochemistry



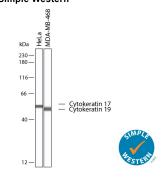
Detection of Cytokeratin 17/19 in Human Prostate, Cytokeratin 17/19 was detected in immersion fixed paraffin-embedded sections of human prostate using Mouse Anti-Human Cytokeratin 17/19 Monoclonal Antibody (Catalog # MAB11568) at 5 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001) or the HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the membrane of basal cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

#### Immunohistochemistry



Detection of Cytokeratin 17/19 in Human Squamous Cell Carcinoma. Cytokeratin 17/19 was detected in immersion fixed paraffin-embedded sections of human squamous cell carcinoma using Mouse Anti-Human Cytokeratin 17/19 Monoclonal Antibody (Catalog # MAB11568) at 5 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001) or the HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the membrane. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue

## Simple Western



**Detection of Human** Cytokeratin 17/19 by Simple Western<sup>™</sup>. Simple Western shows Ivsates of HeLa human cervical epithelial carcinoma cell line and MDA-MB-468 human breast cancer cell line, loaded at 0.5 mg/ml. Specific bands were detected for Cytokeratin 17 at approximately 53kDa and for Cytokeratin 19 at approximately 51kDa (as indicated) using 20 µg/mL of Mouse Anti-Human Cytokeratin 17/19 Monoclonal Antibody (Catalog # MAB11568). This experiment was conducted under reducing conditions and using the 12-230 kDa separation

## PREPARATION AND STORAGE

Reconstitution

Reconstitute lyophilized material at 0.2mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.

Shipping

Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.

### Stability & Storage

## Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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#### BACKGROUND

Cytokeratin 17 (KRT17) is a 48 kDa, 432 aa type I keratin that has been studied in several types of cancer. KRT17 promotes epithelial cell proliferation and tumor growth in skin. Many studies have shown KRT17 overexpression in many cancers including cervical, oral, ovarian, gastric, lung and pancreatic cancer among others. In certain types of breast cancer, KRT17 overexpression has been associated with poor prognosis. KRT17 expression is closely associated with prognosis in cancer and can be a novel therapeutic target.

#### References

- 1. Tang S, Liu W, Yong L, Liu D, Lin X, Huang Y, Wang H, Cai F. Reduced Expression of KRT17 Predicts Poor Prognosis in HER2high Breast Cancer. Biomolecules. 2022 Aug 25;12(9):1183. doi: 10.3390/biom12091183. PMID: 36139022; PMCID: PMC9496156.
- 2. Hu H, Xu DH, Huang XX, Zhu CC, Xu J, Zhang ZZ, Zhao G. Keratin17 Promotes Tumor Growth and is Associated with Poor Prognosis in Gastric Cancer. J Cancer. 2018 Jan 1;9(2):346-357. doi: 10.7150/jca.19838. PMID: 29344281; PMCID: PMC5771342.
- 3. Li D, Ni XF, Tang H, Zhang J, Zheng C, Lin J, Wang C, Sun L, Chen B. KRT17 Functions as a Tumor Promoter and Regulates Proliferation, Migration and Invasion in Pancreatic Cancer via mTOR/S6k1 Pathway. Cancer Manag Res. 2020 Mar 19;12:2087-2095. doi: 10.2147/CMAR.S243129. PMID: 32256116; PMCID: PMC7090205.