

# Cytokeratin 19 Monoclonal Antibody (RCK108)

## Product Details

Size	500 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	RCK108
Conjugate	Unconjugated
Immunogen	Cytoskeleton preparation of T24 cells
Form	Liquid
Storage conditions	4° C
RRID	AB_10980939

Applications	Tested Dilution	Publications
Western Blot (WB)	1:250	1 Publication
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:200	-
Immunocytochemistry (ICC/IF)	1:250	-

## Product Specific Information

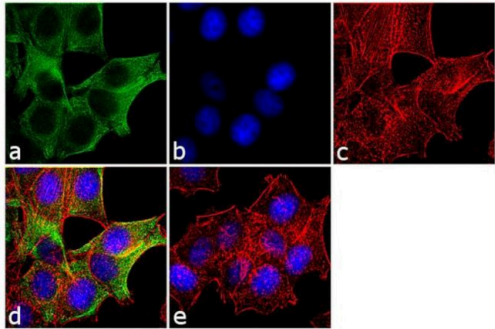
MA5-12613 targets Cytokeratin 19 in IHC (P) and WB applications and shows reactivity with Human samples.

The MA5-12613 immunogen is cytoskeleton preparation of T24 cells.

Product Images For Cytokeratin 19 Monoclonal Antibody (RCK108)

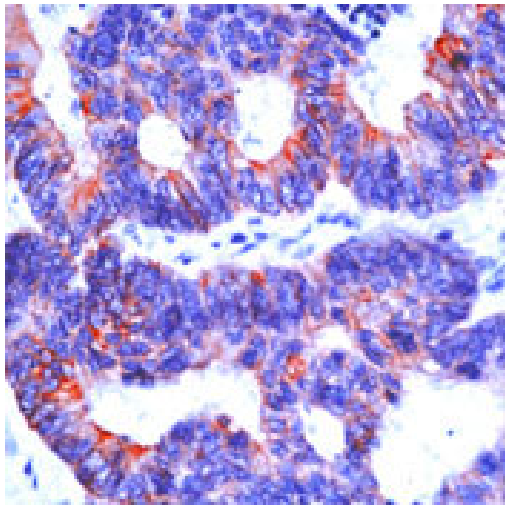
Cytokeratin 19 Antibody (MA5-12613) in ICC/IF

Immunofluorescent analysis of Cytokeratin 19 was performed using 90% confluent log phase MCF-7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Cytokeratin 19 (RCK108) Mouse Monoclonal Antibody (Product # MA5-12613) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing membrane localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



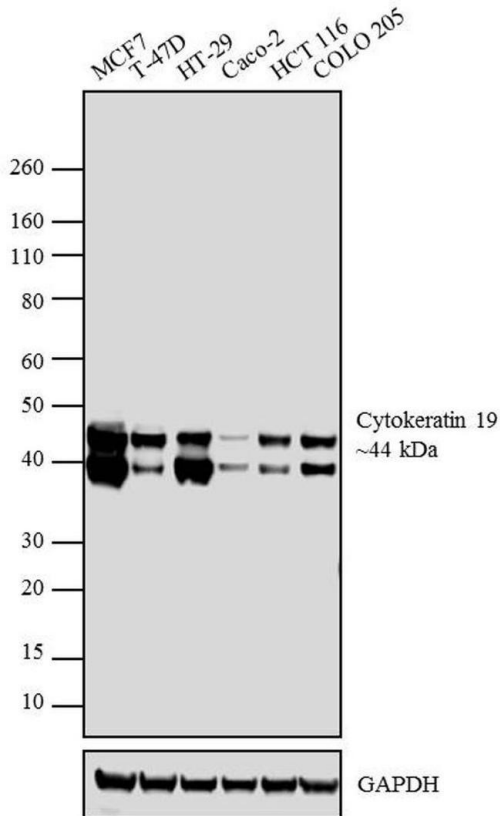
Cytokeratin 19 Antibody (MA5-12613) in IHC

Formalin-fixed, paraffin-embedded human colon carcinoma stained with Keratin 19 antibody using peroxidase-conjugate and AEC chromogen. Note cytoplasmic staining of tumor cells.



Cytokeratin 19 Antibody (MA5-12613) in WB

Western blot analysis was performed on Whole cell extracts of MCF7 (Lane 1), T-47D (Lane 2), HT-29 (Lane 3), Caco-2 (Lane 4), HCT 116 (Lane 5) and COLO 205 (Lane 6). The blot was probed with anti-Cytokeratin 19 Mouse Monoclonal Antibody (Product # MA5-12613, 1:250 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:2500 dilution). A ~ 44 kDa band corresponding to Cytokeratin 19 was observed across the cell lines tested and an additional band at 38 kDa could be the result of cross reactivity with other cytokeratins. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



3 References

Western Blot (1)

Scientific reports	Year
<b>Casein kinase 1 is recruited to nuclear speckles by FAM83H and SON.</b>	2016
"MA512613 was used in immunocytochemistry and western blot to study factors that influence the localization of casein kinase 1"	Species
Authors: Kuga T,Kume H,Adachi J,Kawasaki N,Shimizu M,Hoshino I,Matsubara H,Saito Y,Nakayama Y,Tomonaga T	Human

Immunohistochemistry (2)

Nature	Year
<b>WNT7A and PAX6 define corneal epithelium homeostasis and pathogenesis.</b>	2014
"MA5-12613 was used in immunohistochemistry to establish an in vitro system to study three-dimensional corneal differentiation"	Species
Authors: Ouyang H,Xue Y,Lin Y,Zhang X,Xi L,Patel S,Cai H,Luo J,Zhang M,Zhang M,Yang Y,Li G,Li H,Jiang W,Yeh E, Lin J,Pei M,Zhu J,Cao G,Zhang L,Yu B,Chen S,Fu XD,Liu Y,Zhang K	Human

Diagnostic pathology	Year
<b>Sporadic haemangioblastoma of the kidney with rhabdoid features and focal CD10 expression: report of a case and literature review.</b>	2012
"MA5-12613 was used in immunohistochemistry to report on a case of sporadic haemangioblastoma of the kidney with rhabdoid features and focal CD10 expression"	Species
Authors: Yin WH,Li J,Chan JK	Dilution
	1:200

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