

Cytokeratin 18 Monoclonal Antibody (DC10)

Product Details

Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Non-human primate, Human, Mouse, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	DC10
Conjugate	Unconjugated
Immunogen	Human breast cancer PMC 42 cells
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A/G
Storage buffer	10mM PBS, pH 7.4, with 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	4° C
RRID	AB_10981680

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	15 Publications
Immunohistochemistry (IHC)	-	13 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/mL	2 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	2 Publications
Immunocytochemistry (ICC/IF)	2 µg/mL	8 Publications
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	-	1 Publication

Product Specific Information

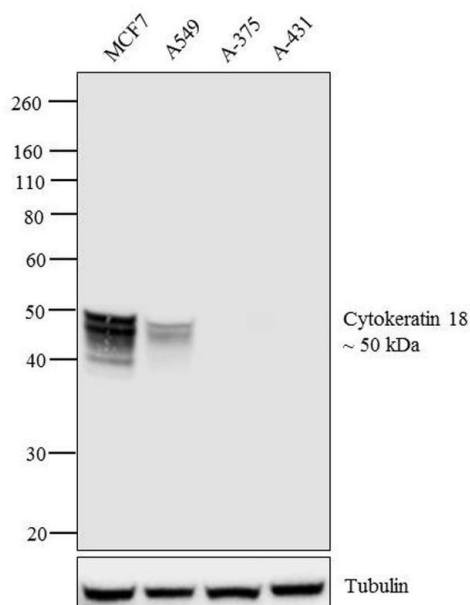
MA5-12104 targets Cytokeratin 18 in IF, IHC (P), FACS, and WB applications and shows reactivity with Human samples.

The MA5-12104 immunogen is human breast cancer PMC 42 cells.

Product Images For Cytokeratin 18 Monoclonal Antibody (DC10)

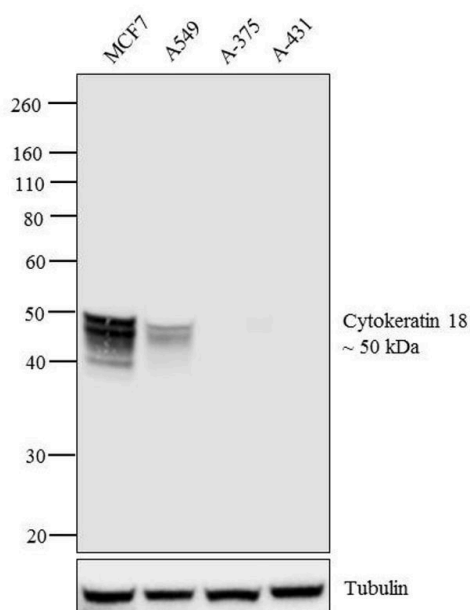
Cytokeratin 18 Antibody (MA5-12104) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of MCF7 (Lane 1), A549 (Lane 2), A-375 (Lane 3) and A-431 (Lane 4). The blot was probed with anti-Cytokeratin 18 Mouse Monoclonal Antibody (Product # MA5-12104, 2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 50 kDa band corresponding to Cytokeratin 18 was observed in MCF7 and A549, and not observed in other cell lines which are documented to be Cytokeratin 18 negative.



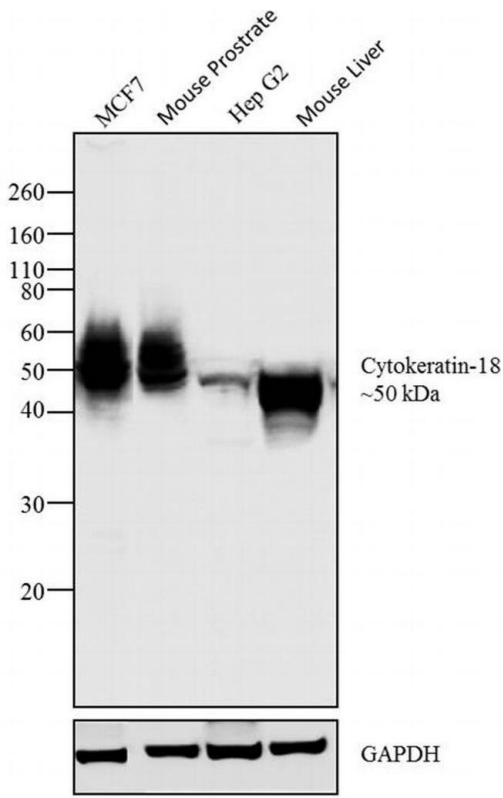
Cytokeratin 18 Antibody (MA5-12104)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Relative expression of Cytokeratin 18 was observed in MCF7, A549, A-375 and A-431 in Western Blot using Cytokeratin 18 Monoclonal Antibody (Product # MA5-12104). Cytokeratin 18 is reported to be expressed in MCF7 and A549 and not in other cell lines like A-375 and A-431. {RE}



Cytokeratin 18 Antibody (MA5-12104) in WB

Western blot analysis was performed on whole cell and tissue extracts of MCF7 (Lane 1), Mouse prostrate tissue (Lane 2), Hep G2 (Lane 3) and Mouse liver tissue (Lane 4). The blots were probed with Anti-Cytokeratin 18 Mouse Monoclonal Antibody (Product # MA5-12104, 2 µg/mL) 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 ~ 50 kDa band corresponding to Cytokeratin 18 was observed across cell line and tissue extracts tested. 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).



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Western Blot (15)

Tissue engineering. Part A

Engineered Liver Tissue Culture in an *In Vitro* Tubular Perfusion System.

"MA5-12104 was used in Western Blot to establish a platform of cell-laden microbeads as basic building blocks to assemble macroscopic tissues via different mechanisms."

Authors: Yang G,Mahadik B,Mollot T,Pinsky J,Jones A,Robinson A,Najafali D,Rivkin D,Katsnelson J,Piard C,Fisher JP

Year
2020

Species
Human

International journal of molecular sciences

Downregulation of C-Terminal Tensin-Like Protein (CTEN) Suppresses Prostate Cell Proliferation and Contributes to Acinar Morphogenesis.

"Published figure using Cytokeratin 18 monoclonal antibody (Product # MA5-12104) in Western Blot"

Authors: Wu WM,Liao YC

Year
2018

Species
Human

[View more WB references on thermofisher.com](#)

Immunohistochemistry (13)

Science advances

CRISPR interference interrogation of COPD GWAS genes reveals the functional significance of desmoplakin in iPSC-derived alveolar epithelial cells.

"Published figure using Cytokeratin 18 monoclonal antibody (Product # MA5-12104) in Immunohistochemistry (PFA fixed)"

Authors: Werder RB,Liu T,Abo KM,Lindstrom-Vautrin J,Villacorta-Martin C,Huang J,Hinds A,Boyer N,Bullitt E,Liesa M,Silverman EK,Kotton DN,Cho MH,Zhou X,Wilson AA

Year
2022

Species
Human

Micromachines

Applicability of Artificial Vascularized Liver Tissue to Proteomic Analysis.

"Published figure using Cytokeratin 18 monoclonal antibody (Product # MA5-12104) in Immunohistochemistry"

Authors: Mori N,Kida YS

Year
2021

Species
Human

Dilution
1:200

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (P) (2)

IHC (PFA) (2)

ICC/IF (8)

Flow (1)

ELISA (1)

IP (1)

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