

# Cytokeratin 18 Monoclonal Antibody (DC-10)

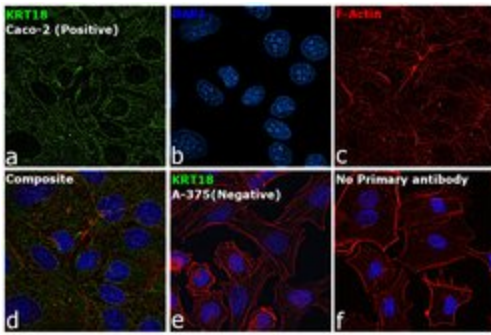
Product Details	
Size	100 µg
Species	Human
Published Species	Non-human primate, Human, Mouse, Rhesus monkey
Expression System	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	DC-10
Conjugate	Unconjugated
Immunogen	Human breast carcinoma cell line PMC-42.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	15mM sodium azide
Storage Conditions	4° C, do not freeze
RRID	AB_1075168

Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay Dependent	1 Publication
Flow Cytometry (Flow)	Assay Dependent	1 Publication
Immunocytochemistry (ICC)	5 µg/mL	3 Publications
Immunofluorescence (IF)	5 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL	1 Publication
Immunoprecipitation (IP)	Assay Dependent	1 Publication
Western Blot (WB)	1-2 µg/mL	14 Publications
Immunohistochemistry (IHC)	-	11 Publications

## Product Specific Information

This antibody will not cross-react with porcine, mouse, rat, hamster, bovine, canine or sheep.

## Advanced Verification Data

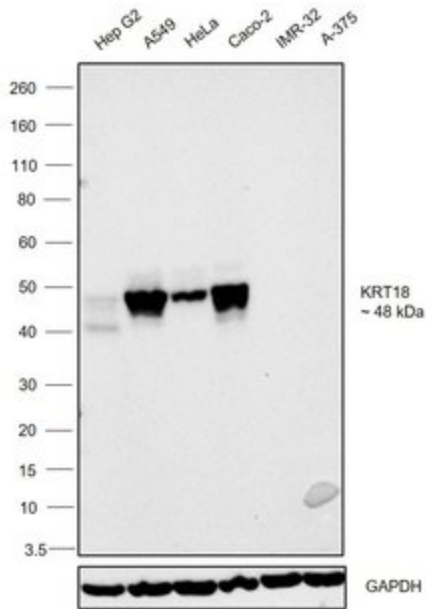


### Cytokeratin 18 Antibody (MA1-19041)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-Cytokeratin 18 Monoclonal Antibody (DC-10) (Product # MA1-19041), shows cytoskeletal staining in Caco-2 in comparison to A-375 cells. Relative expression validation info.

### Cytokeratin 18 Antibody (MA1-19041)

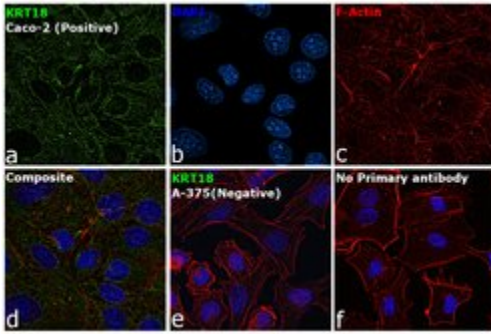
Antibody specificity was demonstrated by detection of differential basal expression of the target across the cell lines tested owing to their inherent genetic constitution. Relative expression of Cytokeratin 18 was observed in Hep G2, A549, HeLa and Caco-2 in comparison to IMR-32 and A-375 using Anti-Cytokeratin 18 Monoclonal Antibody (DC-10) (Product # MA1-19041) in Western Blot. Relative expression validation info.



## Product Images For Cytokeratin 18 Monoclonal Antibody (DC-10)

### Cytokeratin 18 Antibody (MA1-19041) in ICC

Immunofluorescence analysis of Cytokeratin 18 was performed using 70% confluent log phase Caco-2 cells. The cells were fixed with ice-cold acetone at 4°C for 5 minutes and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Cytokeratin 18 Monoclonal Antibody (DC-10) (Product # MA1-19041) at a concentration of 5 ug/ml in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175), (1:2000 dilution), 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 dilution). Panel d represents the merged image showing cytoskeletal localization. Panel e represents A-375 cells with lack cytoskeletal staining. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



[View more figures on thermofisher.com](https://www.thermofisher.com)

## 32 References

### Western Blot (14)

#### Scientific reports

#### Casein kinase 1 is recruited to nuclear speckles by FAM83H and SON.

"MA119041 was used in immunocytochemistry, immunohistochemistry - paraffin section, and western blot to study factors that influence the localization of casein kinase 1"

Authors: Kuga T, Kume H, Adachi J, Kawasaki N, Shimizu M, Hoshino I, Matsubara H, Saito Y, Nakayama Y, Tomonaga T

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2016

#### Breast cancer research and treatment

#### Vitamin D and androgen receptor-targeted therapy for triple-negative breast cancer.

"MA1-19041 was used in western blot to characterize androgen receptor-targeted and vitamin D therapy for triple-negative breast cancer"

Authors: Thakkar A, Wang B, Picon-Ruiz M, Buchwald P, Ince TA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

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

### Immunocytochemistry (3)

#### Scientific reports

#### FAM83H and casein kinase I regulate the organization of the keratin cytoskeleton and formation of desmosomes.

"MA119041 was used in immunocytochemistry and western blot to examine the effects of the FAM83H mutation on the keratin cytoskeleton and desmosomes in ameloblasts"

Authors: Kuga T, Sasaki M, Mikami T, Miake Y, Adachi J, Shimizu M, Saito Y, Koura M, Takeda Y, Matsuda J, Tomonaga T, Nakayama Y

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2016

#### Nature communications

#### Modelling breast cancer requires identification and correction of a critical cell lineage-dependent transduction bias.

"MA1-19041 was used in immunocytochemistry to study and identify critical cell lineage-dependent transduction bias to model breast cancer properly"

Authors: Hines WC, Yaswen P, Bissell MJ

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2015

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

### More applications with references on thermofisher.com

IHC (P) (1)

IHC (11)

IP (1)

Flow (1)

ELISA (1)

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