

# Cytokeratin Pan Type I Monoclonal Antibody (AE1)

## Product Details

Size	500 µL
Species Reactivity	Bovine, Chicken, Human, Mouse, Non-human primate, Rabbit, Rat
Published Species	Rat, Human
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	AE1
Conjugate	Unconjugated
Immunogen	Human epidermal keratin
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10982255

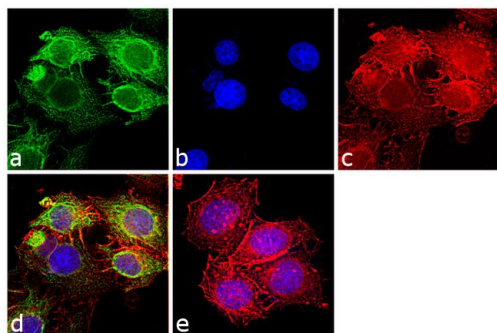
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	5 µg/mL	-
Immunofluorescence (IF)	5 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50	2 Publications
Western Blot (WB)	1:2000	2 Publications
Immunohistochemistry (IHC)	-	12 Publications

## Product Specific Information

MA5-13144 targets Cytokeratin Low Molecular Weight in WB, IF and IHC (P) applications and shows reactivity with Bovine, Chicken, Human, mouse, Non-human primate, Rabbit, and Rat samples. This antibody is not recommended for NIH-3T3 cells in immunofluorescent applications.

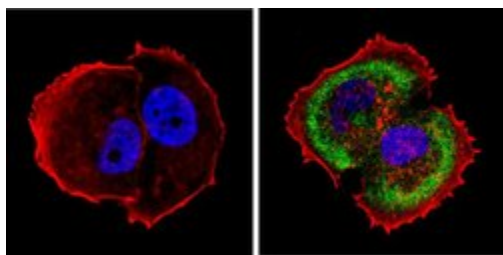
The MA5-13144 immunogen is human epidermal keratin.

## Product Images For Cytokeratin Pan Type I Monoclonal Antibody (AE1)



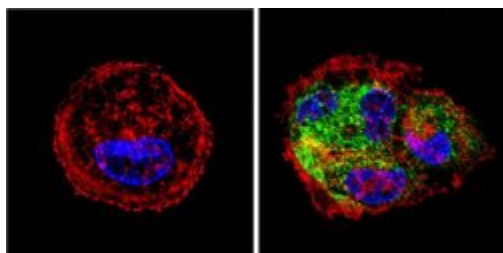
### Cytokeratin Pan Type I Antibody (MA5-13144) in IF

Immunofluorescence analysis of Cytokeratin Low Molecular Weight was performed using 70% confluent log phase MCF7 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 8/18 Monoclonal Antibody (Product # MA5-13144) at 5µg /mL 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) at 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 cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



### Cytokeratin Pan Type I Antibody (MA5-13144) in IF

Immunofluorescent analysis of Cytokeratin Low Molecular Weight (green) showing staining in the cytoplasm of MCF-7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Cytokeratin Low Molecular Weight monoclonal antibody (Product # MA5-13144) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



### Cytokeratin Pan Type I Antibody (MA5-13144) in IF

Immunofluorescent analysis of Cytokeratin Low Molecular Weight (green) showing staining in the cytoplasm of HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Cytokeratin Low Molecular Weight monoclonal antibody (Product # MA5-13144) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.

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

## 16 References

### Immunohistochemistry (Paraffin) (2)

#### Nature communications

#### Fumarate induces redox-dependent senescence by modifying glutathione metabolism.

"MA5-13144 was used in immunohistochemistry - paraffin section to study how redox-dependent senescence is induced by fumarate to modify glutathione metabolism"

Authors: Zheng L, Cardaci S, Jerby L, MacKenzie ED, Sciacovelli M, Johnson TI, Gaude E, King A, Leach JD, Edrada-Ebel R, Hedley A, Morrice NA, Kalna G, Blyth K, Ruppin E, Frezza C, Gottlieb E

#### Species

Not Applicable

#### Dilution

1:100

#### Year

2015

#### Journal of comparative pathology

#### An immunohistochemical study of feline endometrial adenocarcinoma.

"MA5-13144 was used in immunohistochemistry - paraffin section to characterize feline endometrial adenocarcinomas immunohistochemically"

Authors: Gil da Costa RM, Santos M, Amorim I, Lopes C, Pereira PD, Faustino AM

#### Species

Not Applicable

#### Dilution

1:300

#### Year

2009

### Immunohistochemistry (12)

#### Lung cancer (Amsterdam, Netherlands)

#### Association of Merkel cell polyomavirus infection with EGFR mutation status in Chinese non-small cell lung cancer patients.

"MA5-13144 was used in immunohistochemistry to study Chinese non-small cell lung cancer patients to determine if there is an association between polyomavirus infection of Merkel cells and EGFR hotspot mutations"

Authors: Xu S, Jiang J, Yu X, Sheng D, Zhu T, Jin M

#### Species

Human

#### Dilution

1:200

#### Year

2014

#### Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia

#### A clinicopathological study of the significance of the proportion of choroid morphology in chordoid meningioma.

"MA5-13144 was used in immunohistochemistry to study chordoid meningioma and the significance of the proportion of chordoid morphology for the risk of recurrence"

Authors: Lin JW, Lu CH, Lin WC, Wu YT, Huang YJ, Shih FY, Ho JT, Chuang MJ

#### Species

Human

#### Dilution

1:100

#### Year

2012

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### More applications with references on thermofisher.com

## WB (2)

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