Cytokeratin Pan Type I/II Antibody Cocktail

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Non-human primate, Pig, Shrew
Published Species	Rat, Non-human primate, Sheep, Zebrafish, Mouse, Human, Chicken, Horse
Host/Isotype	Mouse / IgG1
Class	Cocktail
Type	Antibody
Clone	AE1/AE3
Conjugate	Unconjugated
Immunogen	Human epidermal keratins.
Form	Liquid
Storage conditions	4°C or -20°C if preferred
RRID	AB_2281092

Applications	Tested Dilution	Publications
Western Blot (WB)	1:200-1:1,000	2 Publications
Immunohistochemistry (IHC)	-	70 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:40	14 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:10-1:40	-
Immunocytochemistry (ICC/IF)	1:100	10 Publications
Flow Cytometry (Flow)	-	1 Publication
in situ PLA (PLA)	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 Publications

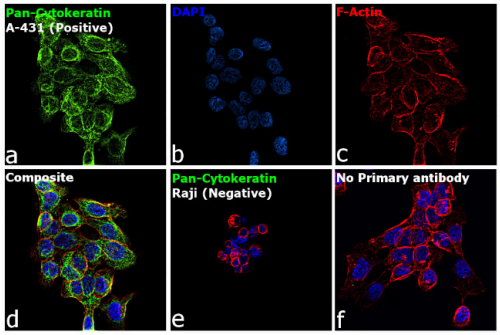
Product Specific Information

Heat-mediated antigen retrieval is recommended for the staining of paraffin sections. A suggested positive control is human skin.

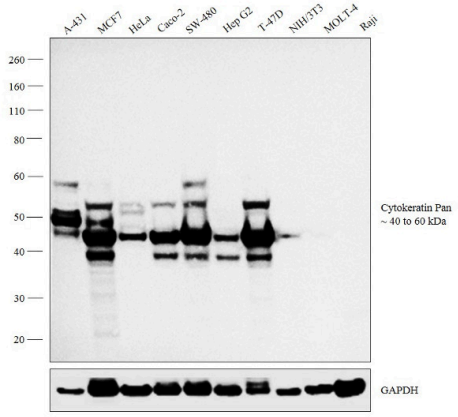
This antibody detects the acidic and basic (Type I and II) cytokeratins: Cytokeratin 1, Cytokeratin 2, Cytokeratin 3, Cytokeratin 4, Cytokeratin 5, Cytokeratin 6, Cytokeratin 7, Cytokeratin 8, Cytokeratin 10, Cytokeratin 14, Cytokeratin 15, Cytokeratin 16 and Cytokeratin 19.

Mouse anti Human Cytokeratin (Pan) antibody, clone AE1/AE3 is a pan-cytokeratin reagent, being a cocktail of clones AE1 and AE3 which provides the broadest spectrum of reactivity to the 19 known human epidermal keratins.

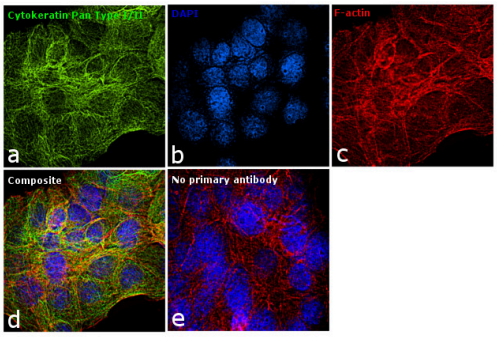
Product Images For Cytokeratin Pan Type I/II Antibody Cocktail



Cytokeratin Pan Type I/II Antibody (MA1-82041) in ICC/IF
Immunofluorescence analysis of Cytokeratin Pan Type I/II was performed using 70% confluent log phase A-431 cells. The cells were fixed and permeabilized with ice-cold acetone at 4°C for 5 minutes and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Cytokeratin Pan Type I/II Antibody Cocktail (Product # MA1-82041, 1:100 dilution) in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766, 1:2000 dilution) for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). 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 Raji cells showing no expression of cytokeratin. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Cytokeratin Pan Type I/II Antibody (MA1-82041)
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 Pan Type I/II was observed in all cell lines except NIH/3T3, MOLT-4 and Raji which has low level of Cytokeratin Pan expression using Cytokeratin Pan Monoclonal antibody (Product # MA1-82041) in western blot. {RE}



Cytokeratin Pan Type I/II Antibody (MA1-82041) in ICC/IF
Immunofluorescence analysis of Cytokeratin Pan Type I/II was performed using 70% confluent log phase A-431 cells. The cells were fixed and permeabilized with ice-cold 100% acetone and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Cytokeratin Pan Type I/II Monoclonal Antibody (AE1/AE3) (Product # MA1-82041) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight 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 ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image showing cytoskeletal localization. The images were captured at 60X magnification.

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100 References

Western Blot (2)

International journal of cancer

Cyclooxygenase-2 overexpression in MCF-10F human breast epithelial cells inhibits proliferation, apoptosis and differentiation, and causes partial transformation.

"MA1-82041 was used in western blot to investigate the effect of COX-2 overexpression on inhibiting proliferation, apoptosis and differentiation."

Authors: Lu S,Yu G,Zhu Y,Archer MC

Year 2005

Species Human

Gynecologic oncology

Invasion of interstitial matrix by a novel cell line from primary peritoneal carcinosarcoma, and by established ovarian carcinoma cell lines: role of cell-matrix adhesion molecules, proteinases, and E-cadherin expression.

"MA1-82041 was used in western blot to study how cell-matrix interactions influence the invasive behavior of a novel, primary peritoneal carcinosarcoma cell line"

Authors: Kokenyesi R,Murray KP,Benshushan A,Huntley ED,Kao MS

Year 2003

Dilution 1:1000

Immunohistochemistry (70)

Case reports in pathology

A Previously Undescribed Presentation of Mixed Adenoneuroendocrine Carcinoma.

"MA182041 was used in immunohistochemistry to discuss a case of mixed adenoneuroendocrine carcinoma of stomach with tubular adenoma and well-differentiated neuroendocrine tumor in the primary tumor in the stomach"

Authors: De Luca-Johnson J,Zenali M

Year 2022

Species Human

Cancers

Functional Specificity of the Members of the Sos Family of Ras-GEF Activators: Novel Role of Sos2 in Control of Epidermal Stem Cell Homeostasis.

"MA1-82041 was used in Immunohistochemistry-immunofluorescence to show GEFs Sos1 and Sos2 play specific mechanistic roles in primary mouse keratinocytes."

Authors: Baltanás FC,Mucientes-Valdivieso C,Lorenzo-Martín LF,Fernández-Parejo N,García-Navas R,Segrelles C, Calzada N,Fuentes-Mateos R,Paramio JM,Bustelo XR,Santos E

Year 2021

Species Mouse

Dilution 1:40

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More applications with references on thermofisher.com

IHC (P) (14) ICC/IF (10) Flow (1) PLA (1) Misc (2)

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