

Cytokeratin 8 Monoclonal Antibody (M20)

Product Details	
Size	100 µL
Species Reactivity	Human, Rabbit, Rat
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	M20
Conjugate	Unconjugated
Immunogen	Keratin isolated from the human breast carcinoma cell line MCF-7.
Form	Liquid
Concentration	1 mg/mL
Purification	purified
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_559794

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:1,000	6 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:200	-
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:200	-
Immunocytochemistry (ICC/IF)	1:100-1:200	1 Publication
Flow Cytometry (Flow)	Assay-dependent	-

Product Specific Information

MA1-06318 detects cytokeratin 8 in rat, human, and rabbit samples.

MA1-06318 has successfully been used in Western blotting, immunocytochemistry, flow cytometry and immunohistochemistry (frozen, paraffin).

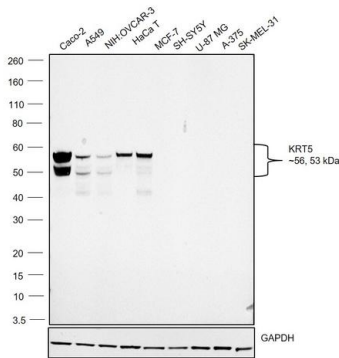
The MA1-06318 immunogen is keratin isolated from the human breast carcinoma cell line MCF-7.

Store at 4°C or in small aliquots at -20°C.

Product Images For Cytokeratin 8 Monoclonal Antibody (M20)

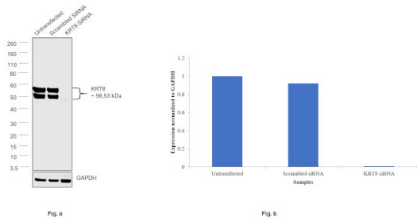
Cytokeratin 8 Antibody (MA1-06318) in WB

Western blot was performed using Anti-Cytokeratin 8 Monoclonal Antibody (M20) (Product # MA1-06318) and a 56 & 53 kDa band corresponding to Cytokeratin 8 was observed across the cell lines tested except SH-SY5Y, U-87 MG, A-375 and SK-MEL-31. Whole cell extracts (30 µg lysate) of Caco-2 (Lane 1), A549 (Lane 2), NIH:OVCA-3 (Lane 3), HaCaT (Lane 4), MCF7 (Lane 5), SH-SY5Y (Lane 6), U-87 MG (Lane 7), A-375 (Lane 8) and SK-MEL-31(Lane 9) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



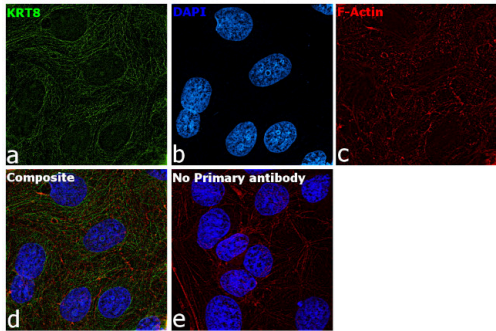
Cytokeratin 8 Antibody (MA1-06318)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. Caco-2 cells were transfected with Cytokeratin 8 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-Cytokeratin 8 Monoclonal Antibody (M20) (Product # MA1-06318). {KD}



Cytokeratin 8 Antibody (MA1-06318) in ICC/IF

Immunofluorescence analysis of Cytokeratin 8 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 8 Monoclonal Antibody (M20) (Product # MA1-06318) at 1:200 dilution 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 control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (6)

<p>FASEB journal : official publication of the Federation of American Societies for Experimental Biology</p> <p>Keratin 8 phosphorylation regulates its transamidation and hepatocyte Mallory-Denk body formation.</p> <p>"MA1-06318 was used in western blot to study the role of keratin 8 phosphorylation in regulating Mallory-Denk body formation"</p> <p>Authors: Kwan R,Hanada S,Harada M,Strnad P,Li DH,Omary MB</p>	<p>Year 2012</p> <p>Species Human</p>
<p>Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association</p> <p>Analysis of keratin polypeptides 8 and 19 variants in inflammatory bowel disease.</p> <p>"MA1-06318 was used in western blot to study whether variants of keratin 8 and keratin 19 are associated with inflammatory bowel disease"</p> <p>Authors: Tao GZ,Strnad P,Zhou Q,Kamal A,Zhang L,Madani ND,Kugathasan S,Brant SR,Cho JH,Omary MB,Duerr RH</p>	<p>Year 2007</p> <p>Species Human</p>

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Immunohistochemistry (2)

<p>Journal of cutaneous pathology</p> <p>Antigen expression of human eccrine sweat glands.</p> <p>"MA1-06318 was used in immunohistochemistry to identify the phenotypic markers of human eccrine sweat glands"</p> <p>Authors: Li HH,Zhou G,Fu XB,Zhang L</p>	<p>Year 2009</p> <p>Species Human</p> <p>Dilution 1:100</p>
<p>Journal of hepato-biliary-pancreatic surgery</p> <p>Mesenchymal hamartoma of the liver in adulthood: immunohistochemical profiles, clinical and histopathological features in two patients.</p> <p>"MA1-06318 was used in immunohistochemistry to study two adult patients with mesenchymal hamartoma of the liver"</p> <p>Authors: Yesim G,Gupse T,Zafer U,Ahmet A</p>	<p>Year 2006</p> <p>Species Human</p>

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ICC/IF (1)

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