

Cytochrome C Monoclonal Antibody (7H8.2C12)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human, Mouse, Xenopus
Host/Isotope	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	7H8.2C12
Conjugate	Unconjugated
Immunogen	Synthetic peptides corresponding to amino acids 1-80, 81-104 and 66-104 of pigeon cytochrome c
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10985701

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	Assay Dependent	16 Publications
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:100	3 Publications
Immunohistochemistry (IHC)	-		4 Publications
Immunocytochemistry (ICC)	✓	2 µg/mL	2 Publications
Miscellaneous PubMed (MISC)	-	1:1000	4 Publications
Immunofluorescence (IF)	✓	2 µg/mL	

Product Specific Information

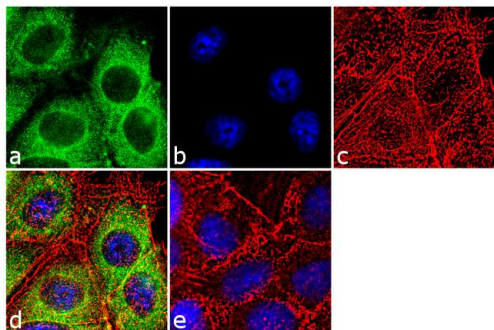
MA5-11674 targets Cytochrome c in IHC (P) and WB applications and shows reactivity with Human, mouse, and Rat samples.

The MA5-11674 immunogen is synthetic peptides corresponding to amino acids 1-80, 81-104 and 66-104 of pigeon cytochrome c.

Product Images For Cytochrome C Monoclonal Antibody (7H8.2C12)

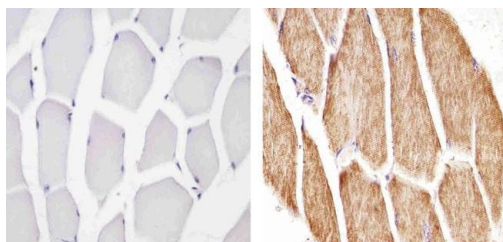
Cytochrome C Antibody (MA5-11674) in IF

Immunofluorescence analysis of Cytochrome-C was done on 70% confluent log phase HepG2 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 Cytochrome-C (7H8.2C12) Mouse Monoclonal Antibody (Product # MA5-11674) at 2 µg/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 Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



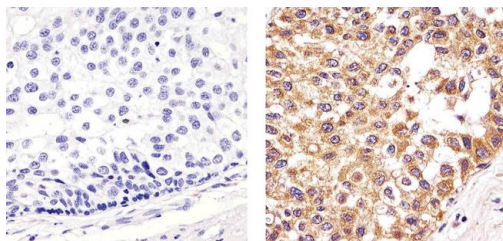
Cytochrome C Antibody (MA5-11674) in IHC (P)

Immunohistochemistry analysis of Cytochrome c showing staining in the cytoplasm of paraffin-embedded mouse skeletal muscle tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a Cytochrome c Mouse Monoclonal Antibody (Product # MA5-11674) diluted in 3% BSA-PBS at a dilution of 1:100 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Cytochrome C Antibody (MA5-11674) in IHC (P)

Immunohistochemistry analysis of Cytochrome c showing staining in the cytoplasm of paraffin-embedded human breast carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a using Cytochrome c Mouse Monoclonal Antibody (Product # MA5-11674) diluted in 3% BSA-PBS at a dilution of 1:100 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Western Blot (16)

Molecular cancer

Esculetin induces antiproliferative and apoptotic response in pancreatic cancer cells by directly binding to KEAP1.

"MA5-11674 was used in western blot to elucidate the mechanism by which esculetin induces cytotoxicity in cancer cells"

Authors: Arora R, Sawney S, Saini V, Steffi C, Tiwari M, Saluja D

Species
Human

Dilution
Not Cited

Year
2016

The Journal of cell biology

Bcl-xL regulates mitochondrial energetics by stabilizing the inner membrane potential.

"MA5-11674 was used in western blot to study the association of Bcl-xL with inner mitochondrial cristae and its role in stabilizing the inner membrane potential"

Authors: Chen YB, Aon MA, Hsu YT, Soane L, Teng X, McCaffery JM, Cheng WC, Qi B, Li H, Alavian KN, Dayhoff-Brannigan M, Zou S, Pineda FJ, O'Rourke B, Ko YH, Pedersen PL, Kaczmarek LK, Jonas EA, Hardwick JM

Species
Rat

Dilution
1:1000

Year
2011

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

Immunohistochemistry (Paraffin) (3)

PloS one

Growth Hormone Ameliorates the Radiotherapy-Induced Ovarian Follicular Loss in Rats: Impact on Oxidative Stress, Apoptosis and IGF-1 /IGF-1R Axis.

"MA5-11674 was used in immunohistochemistry - paraffin section to learn the importance of oxidative stress IGF-1/IGF-1R axis, and apoptosis and how growth hormone ameliorates the radiotherapy-induced ovarian follicular loss in rats"

Authors: Mahran YF, El-Demerdash E, Nada AS, El-Naga RN, Ali AA, Abdel-Naim AB

Species
Not Applicable

Dilution
Not Cited

Year
2016

Cancer chemotherapy and pharmacology

Selective A3 adenosine receptor agonist protects against doxorubicin-induced cardiotoxicity.

"MA5-11674 was used in immunohistochemistry - paraffin section to elucidate the function of selective A3 adenosine receptor agonist against doxorubicin-induced cardiotoxicity"

Authors: Galal A, El-Bakly WM, Al Haleem EN, El-Demerdash E

Species
Not Applicable

Dilution
Not Cited

Year
2016

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

More applications with references on thermofisher.com

IHC (4)

ICC (2)

MISC (4)

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