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

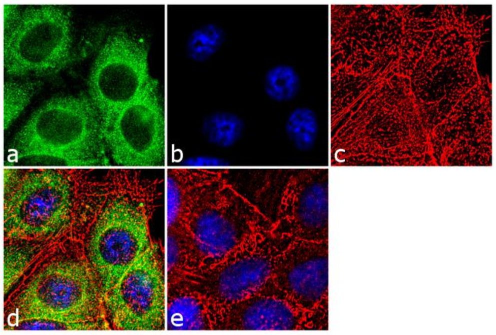
Applications	**Tested**	**Dilution**	**Published**
Western Blot (WB)	✓	Assay Dependent	16 Publications
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:100	3 Publications
Immunohistochemistry (IHC)	-		4 Publications
Immunocytochemistry (ICC)	✓	2 µg/mL	2 Publications
Miscellaneous PubMed (MISC)	-	1:1000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

Product Specific Information

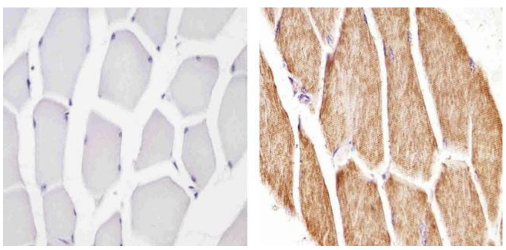
MA5-11674 targets Cytochrome c in IHC (P) and WB applications and shows reactivity with Human, mouse, and Rat samples.

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

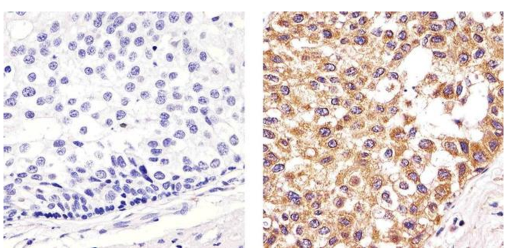
Product Images For Cytochrome C Monoclonal Antibody (7H8.2C12)



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.

View more figures on thermofisher.com

29 References

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 christae 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)**