

Cytochrome C Monoclonal Antibody (37BA11)

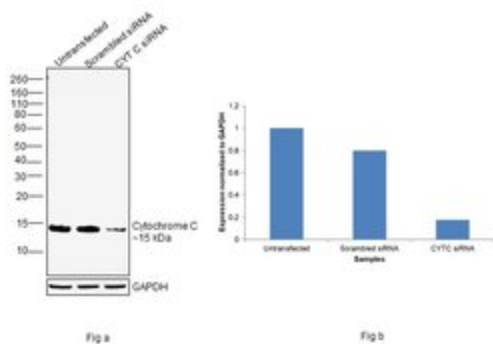
Product Details

Size	100 µg
Species	Bovine, C. elegans, Human, Mouse, Rat
Published Species	Mouse, Human
Expression System	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	37BA11
Conjugate	Unconjugated
Immunogen	Bovine heart Cytochrome C
Form	Liquid
Concentration	1 mg/mL
Purification	IgG fraction
Storage buffer	HEPES buffered saline
Contains	0.02% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2533821

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/mL	-
Immunocytochemistry (ICC)	0.5-2 µg/mL	-
Immunofluorescence (IF)	0.5-2 µg/mL	1 Publication
Western Blot (WB)	0.25-1 µg/mL	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

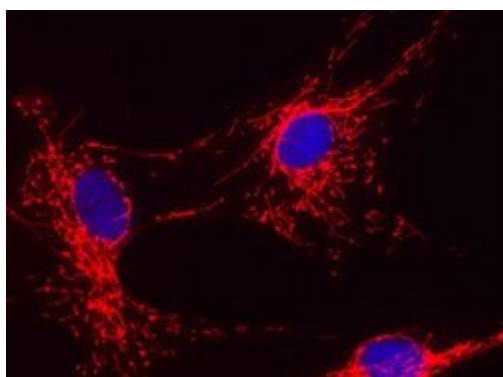
45-6100 was used successfully in the western blot analysis of cytochrome C using human breast cancer cell line lysates.
 Positive control: Isolated mitochondria from Human, Bovine, Rat and Mouse heart; Human fibroblasts; HeLa cells.
 WB: Predicted molecular weight: 14 kDa. ICC/IF: Heat induced antigen retrieval in 0.1 M Tris-HCl, 5% urea, pH 9.5 for 5 min at 95°C improves signal.



Cytochrome C Antibody (45-6100)

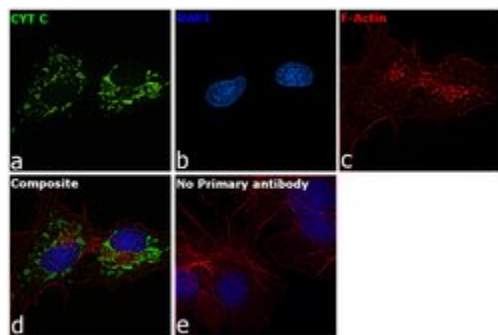
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. Hep G2 cells were transfected with Cytochrome C siRNA and decrease in signal intensity was observed in Western Blot application using Anti-Cytochrome C Monoclonal Antibody (37BA11) (Product # 45-6100). Knockdown validation info.

Product Images For Cytochrome C Monoclonal Antibody (37BA11)



Cytochrome C Antibody (45-6100) in IF

Immunofluorescent analysis of Cytochrome C in Human fibroblasts using a Cytochrome C Monoclonal antibody (Product # 45-6100) at 2µg/mL. The Human fibroblast cells were fixed and permeabilized, after which they were detected using a fluorescent goat-anti-mouse IgG secondary antibody.



Cytochrome C Antibody (45-6100) in ICC

Immunofluorescence analysis of Cytochrome C was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Cytochrome C Monoclonal Antibody (37BA11) (Product # 45-6100) at 1 µg/mL 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 cytoplasmic (mitochondria-like) 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 (5)

Cryobiology

DNA methylation and histone deacetylation regulating insulin sensitivity due to chronic cold exposure.

"456100 was used in immunohistochemistry and western blot to assess the causal relationship between chronic cold exposure and insulin resistance and the mechanisms of how DNA methylation and histone deacetylation regulate cold-reduced insulin resistance"

Authors: Wang X,Wang L,Sun Y,Li R,Deng J,Deng J

Species
Mouse

Dilution
1:2000

Year
2017

Nature structural and molecular biology

Conserved mRNA-binding proteomes in eukaryotic organisms.

"Published figure using Cytochrome C monoclonal antibody (Product # 45-6100) in Western Blot"

Authors: Matia-González AM,Laing EE,Gerber AP

Species
Not Applicable

Dilution
Not Cited

Year
2015

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

Immunohistochemistry (Paraffin) (2)

Neurobiology of aging

A ketogenic diet accelerates neurodegeneration in mice with induced mitochondrial DNA toxicity in the forebrain.

"45-6100 was used in immunohistochemistry - paraffin section to test if the severe neurodegeneration observed in mutUNG1-expressing mice is prevented by a ketogenic diet"

Authors: Lauritzen KH,Hasan-Olive MM,Regnell CE,Kleppa L,Scheibye-Knudsen M,Gjedde A,Klungland A,Bohr VA, Storm-Mathisen J,Bergersen LH

Species
Mouse

Dilution
1:500

Year
2016

DNA repair

Mitochondrial DNA toxicity compromises mitochondrial dynamics and induces hippocampal antioxidant defenses.

"45-6100 was used in immunohistochemistry - paraffin section to investigate the effects of mitochondrial DNA damage on hippocampal neurons."

Authors: Lauritzen KH,Cheng C,Wiksen H,Bergersen LH,Klungland A

Species
Mouse

Dilution
1:500

Year
2011

More applications with references on thermofisher.com

Misc (1) IF (1)

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