

For Research Use Only

# Cytochrome c Monoclonal antibody

Catalog Number: 66264-1-Ig

Featured Product

119 Publications



## Basic Information

Catalog Number:

66264-1-Ig

Concentration:

1828 ug/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG24349

GenBank Accession Number:

BC009578

GeneID (NCBI):

54205

UNIPROT ID:

P99999

Full Name:

cytochrome c, somatic

Calculated MW:

12 kDa

Observed MW:

12-15 kDa

Purification Method:

Protein A purification

CloneNo.:

2D8D11

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:5000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, canine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

**WB** : HeLa cells, human heart tissue, human skeletal muscle tissue, rat skeletal muscle tissue, mouse skeletal muscle tissue, HEK-293 cells, HepG2 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, ROS1728 cells, RAW 264.7 cells

**IHC** : human liver cancer tissue, human breast cancer tissue

**IF/ICC** : HepG2 cells,

## Background Information

Cytochrome c is a 12-15 kDa electron transporting protein located in the inner mitochondrial membrane. Upon apoptotic stimulation, cytochrome c can be released from mitochondria into cytoplasm, resulting in caspase-3 activation and apoptosis. Measurement of cytochrome c release from the mitochondria is useful for detection of the onset of apoptosis in cells. In addition, cytochrome c can also leave cells and be detectable in extra-cellular medium of apoptotic cells and serum of cancer patients. The level of serum cytochrome c may serve as a prognostic maker during cancer therapy.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xudong Yao	30273654	Pharmacol Res	WB
Zi-Chao Wang	36163178	Cell Death Dis	WB
Na Jiang	32975326	Cell Prolif	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

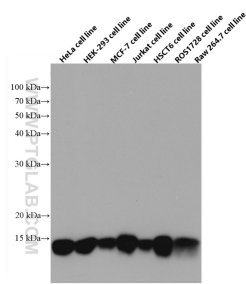
T: 4006900926

E: Proteintech-CN@ptglab.com

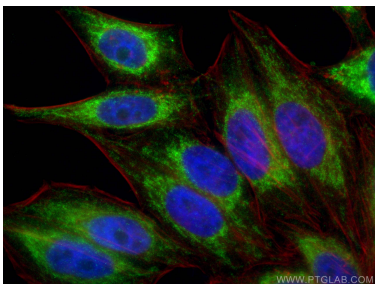
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

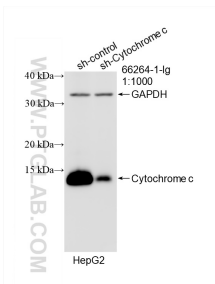
Selected Validation Data



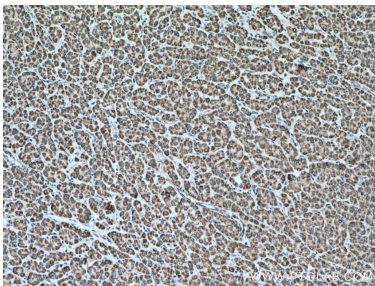
Various cells were subjected to SDS PAGE followed by western blot with 66264-1-Ig (Cytochrome c antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



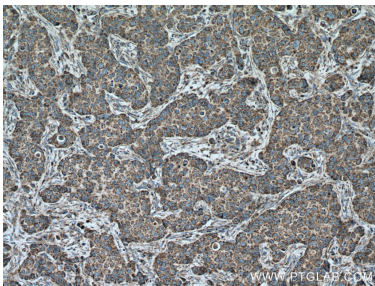
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Cytochrome c antibody (66264-1-Ig, Clone: 2D8D11 ) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).



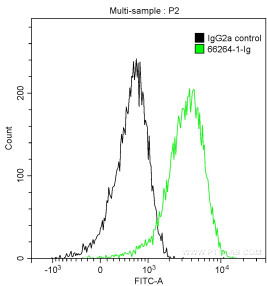
WB result of Cytochrome c antibody (66264-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytochrome c transfected HepG2 cells.



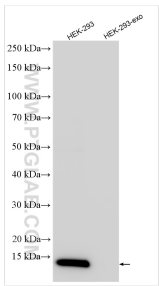
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66264-1-Ig (Cytochrome c antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66264-1-Ig (Cytochrome c antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.2 ug Anti-Human Cytochrome c (66264-1-Ig, Clone:2D8D11) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Mouse IgG2a Isotype Control (66360-2-Ig, Clone: K11A1B2A2) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.



HEK-293 cells and HEK-293-derived exosomes (HEK-293-exo) were subjected to SDS PAGE followed by western blot with 66264-1-Ig (Cytochrome c antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.