

For Research Use Only

# Cytochrome c Polyclonal antibody

Catalog Number: 10993-1-AP

Featured Product

489 Publications



## Basic Information

**Catalog Number:**

10993-1-AP

**Size:**

670 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1455

**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:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:8000

IHC 1:500-1:2000

IF 1:50-1:500

## Applications

**Tested Applications:**

FC, IF-P, IHC, WB, ELISA

**Cited Applications:**

WB, IHC, IF, FC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

Hippospongia, human, goat, chicken, rat, sheep, mouse, monkey, hamster, pig

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

**This antibody is not recommended for immunocytofluorescent assays.**

**Positive Controls:**

**WB** : HeLa cells, HEK-293 cells, HepG2 cells, mouse skeletal muscle tissue, rat skeletal muscle tissue, NIH/3T3 cells, rat liver tissue, Jurkat cells, mouse kidney tissue, rat kidney tissue, C2C12 cells

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

**IF** : mouse eye tissue,

## Background Information

Cytochrome c is a 12-15 kDa electron transporting protein located in the inner mitochondrial membrane. As a part of respiratory chain, cytochrome c plays a critical role in the process of oxidative phosphorylation and ATP producing. Besides, cytochrome c also gets implicated in apoptosis process. Upon apoptotic stimulation, cytochrome c can be released from mitochondria into cytoplasm, which is required for caspase-3 activation and the occurrence of apoptosis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qingxi Zhang	33117129	Front Mol Neurosci	WB
Yiqun Ji	33152945	Biomed Pharmacother	WB
Hui Wang	36243659	Hepatobiliary Pancreat Dis Int	WB

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

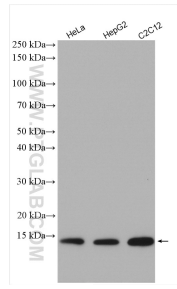
T: 4006900926

E: Proteintech-CN@ptglab.com

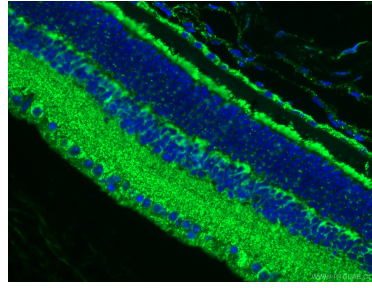
W: ptgcn.com

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

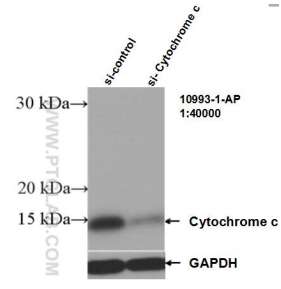
## Selected Validation Data



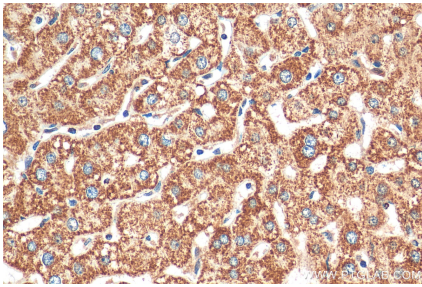
Various lysates were subjected to SDS PAGE followed by western blot with 10993-1-AP (Cytochrome c antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



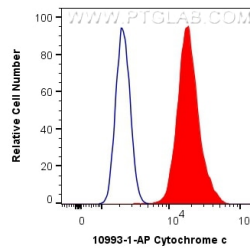
Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using Cytochrome c antibody (10993-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of Cytochrome c antibody (10993-1-AP; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytochrome c transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10993-1-AP (Cytochrome c antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Anti-Human Cytochrome c (10993-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).