

For Research Use Only

# Cytochrome c Polyclonal antibody

Catalog Number: 10993-1-AP

Featured Product

617 Publications



## Basic Information

Catalog Number:

10993-1-AP

Concentration:

670 ug/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-P: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

WB, IHC, IF-P, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

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

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

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

**IF-P**: mouse eye tissue,

**FC (Intra)**: HepG2 cells,

## 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

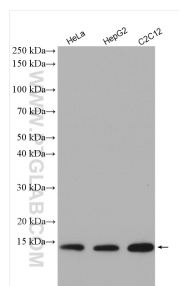
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

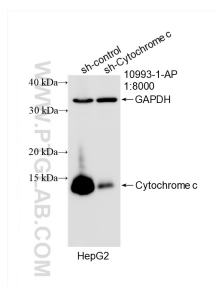
W: [ptgcn.com](http://ptgcn.com)

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

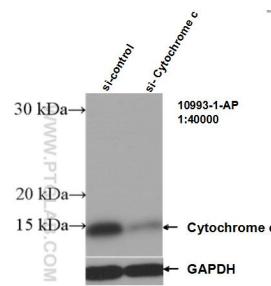
## Selected Validation Data



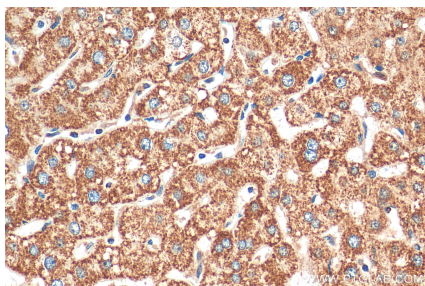
Various lysates were subjected to SDS PAGE followed by western blot with 10993-1-AP (Cytochrome c antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



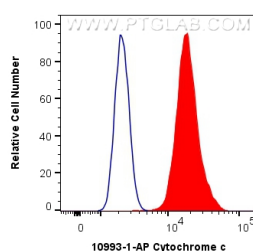
WB result of Cytochrome c antibody (10993-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytochrome c transfected HepG2 cells.



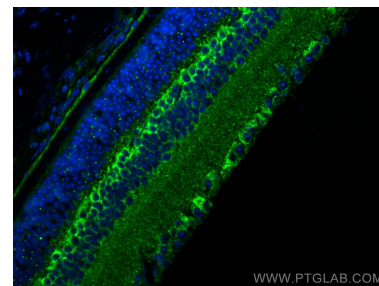
WB result of Cytochrome c antibody (10993-1-AP; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytochrome c transfected HEK-293 cells.



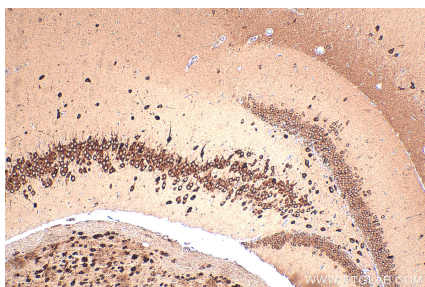
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10993-1-AP (Cytochrome c antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



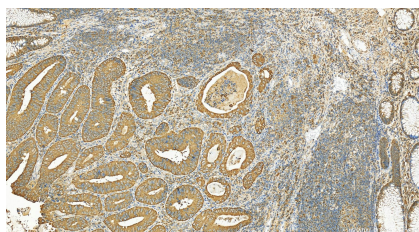
1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Anti-Human Cytochrome c (10993-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded 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) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10993-1-AP (Cytochrome c antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10993-1-AP (Cytochrome c antibody) at dilution of 1:3000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).