

For Research Use Only

# CYB5R3 Polyclonal antibody

Catalog Number: 10894-1-AP

Featured Product

34 Publications



## Basic Information

### Catalog Number:

10894-1-AP

### Concentration:

500 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1339

### GenBank Accession Number:

BC004821

### GeneID (NCBI):

1727

### UNIPROT ID:

P00387

### Full Name:

cytochrome b5 reductase 3

### Calculated MW:

33 kDa

### Observed MW:

30-35 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:200-1:800

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat, pig

### Cited Species:

human, mouse, rat, pig, hamster

**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:** A431 cells, MCF-7 cells, human lung tissue, human liver tissue, mouse liver tissue, human placenta tissue, HeLa cells, HepG2 cells, rat liver tissue

**IP:** HepG2 cells,

**IHC:** human normal colon, human lung cancer tissue

**IF/ICC:** HeLa cells,

## Background Information

CYB5R3, also named as DIA1 and B5R, belongs to the flavoprotein pyridine nucleotide cytochrome reductase family. It plays an essential role in the mitochondrial metabolism by its contribution to cellular redox homeostasis. Overstimulation of CYB5R3 associated with lipid rafts can account for the overshoot of plasma membrane-focalized superoxide anion production that triggers the entry of CGN in the irreversible phase of apoptosis.

## Notable Publications

Author	Pubmed ID	Journal	Application
J Sevilla-Montero	36174878	Free Radic Biol Med	WB
Brittany G Durgin	34536439	J Mol Cell Cardiol	IF
Lisha Wei	32913122	J Biol Chem	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:

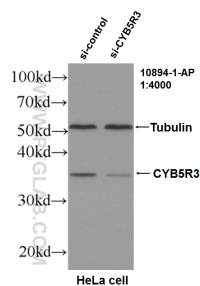
T: 4006900926

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

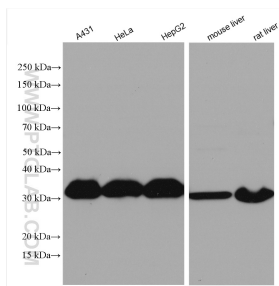
W: [ptgcn.com](http://ptgcn.com)

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

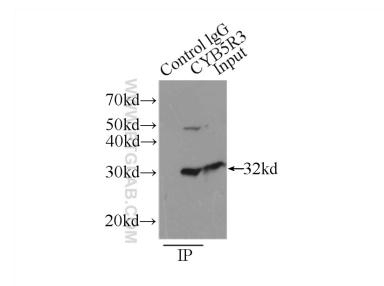
## Selected Validation Data



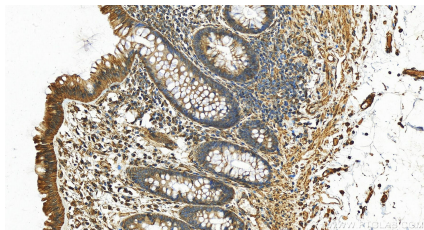
WB results of CYB5R3 antibody (10894-1-AP, 1:4000) with si-Control and si-CYB5R3 transfected HeLa cells.



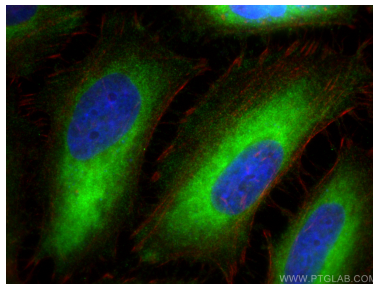
Various lysates were subjected to SDS PAGE followed by western blot with 10894-1-AP (CYB5R3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-CYB5R3 (IP:10894-1-AP, 3ug; Detection:10894-1-AP 1:1000) with HepG2 cells lysate 6000ug.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 10894-1-AP (CYB5R3 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CYB5R3 antibody (10894-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).