

For Research Use Only

# CYB5R3 Polyclonal antibody

Catalog Number: 10894-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

10894-1-AP

### Size:

150UL, Concentration: 180 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1339

### GenBank Accession Number:

BC004821

### GeneID (NCBI):

1727

### Full Name:

cytochrome b5 reductase 3

### Calculated MW:

33 kDa

### Observed MW:

30-35 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

IF 1:10-1:100

## Applications

### Tested Applications:

IF, IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse, pig, rat

### Cited Species:

hamster, mouse, rat, swine

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

**IP:** HepG2 cells,

**IHC:** human lung cancer tissue,

**IF:** 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
Lisha Wei	32913122	J Biol Chem	WB
Brittany G Durgin	31487266	JCI Insight	IHC
Alejandro K Samhan-Arias	24816293	Free Radic Biol Med	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

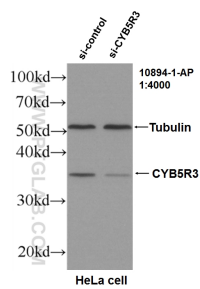
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

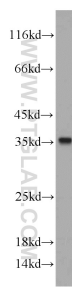
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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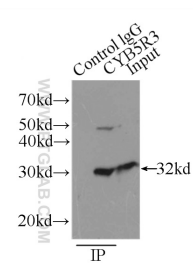
## Selected Validation Data



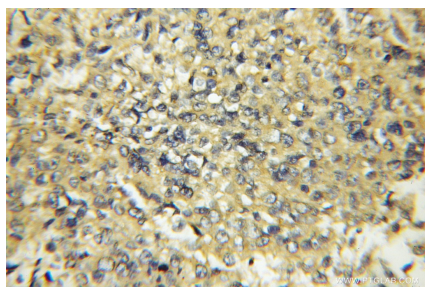
WB results of CYB5R3 antibody (10894-1-AP, 1:4000) with si-Control and si-CYB5R3 transfected HeLa cells.



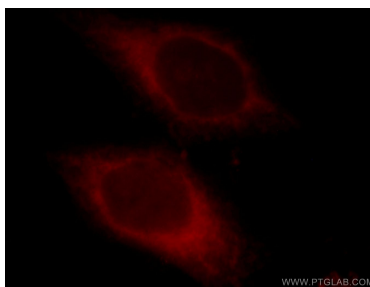
HepG2 cells were subjected to SDS PAGE followed by western blot with 10894-1-AP (CYB5R3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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 lung cancer using 10894-1-AP (CYB5R3 antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of HepG2 cells, using CYB5R3 antibody 10894-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).