

For Research Use Only

CYB5B Polyclonal antibody

Catalog Number: 15469-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number:

15469-1-AP

Size:

150ul, Concentration: 400 µg/ml by Nanodrop and 247 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7771

GenBank Accession Number:

BC004373

GeneID (NCBI):

80777

UNIPROT ID:

O43169

Full Name:

cytochrome b5 type B (outer mitochondrial membrane)

Calculated MW:

16 kDa

Observed MW:

20-21 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:20-1:200

IF 1:50-1:500

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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, mouse liver tissue, human liver tissue, mouse lung tissue, human adrenal gland tissue, rat liver tissue, rat lung tissue

IP: mouse lung tissue,

IHC: human testis tissue, mouse testis tissue

IF: HepG2 cells,

Background Information

CYB5B (Cytochrome b5 type B) is also named as CYB5M, OMB5 and belongs to the cytochrome b5 family. It is a 21 kDa membrane bound hemoprotein which function as an electron carrier for several membrane bound oxygenases. This protein is expressed on the plasma membrane of lymphoma cells but not normal lymphocytes, reactive lymphocytes or bone marrow precursor cells (PMID:20100355). The full length protein has a propeptide with 11 amino acids.

Notable Publications

Author	Pubmed ID	Journal	Application
Paige Dickson	32857985	Cell Chem Biol	WB
Zhao Ding	35573741	Front Mol Biosci	IHC
Eriks Smagris	38437227	PLoS Genet	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

*** 20ul sizes contain 0.1% BSA

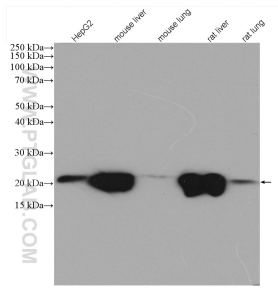
For technical support and original validation data for this product please contact:

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

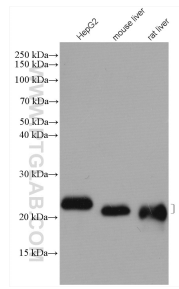
E: proteintech@ptglab.com
W: ptglab.com

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

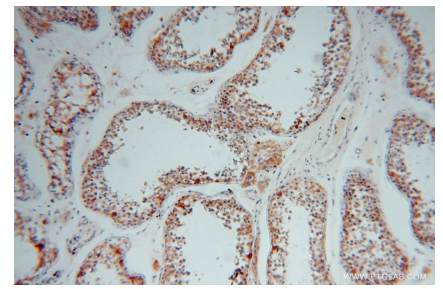
Selected Validation Data



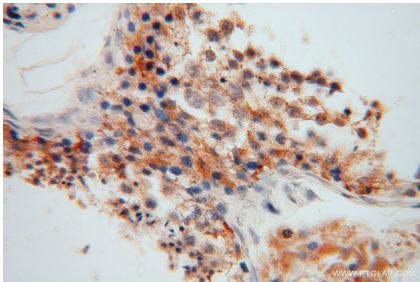
Various lysates were subjected to SDS PAGE followed by western blot with 15469-1-AP (CYB5B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



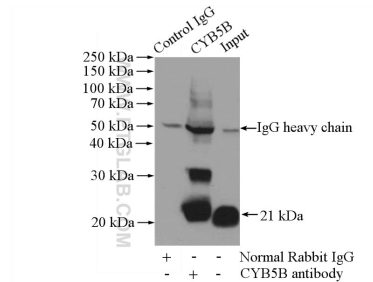
Various lysates were subjected to SDS PAGE followed by western blot with 15469-1-AP (CYB5B antibody) at dilution of 1:4000 incubated at 4 degree celsius over night.



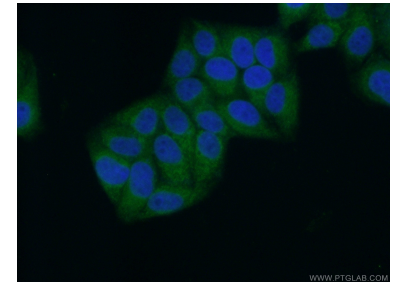
Immunohistochemical analysis of paraffin-embedded human testis using 15469-1-AP (CYB5B antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 15469-1-AP (CYB5B antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-CYB5B (IP:15469-1-AP, 3ug; Detection:15469-1-AP 1:500) with mouse lung tissue lysate 4000ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed Hep2 cells using 15469-1-AP (CYB5B antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).