

CYB5R3 Monoclonal antibody

Catalog Number: 66022-1-Ig

Featured Product

Basic Information

Catalog Number:

66022-1-Ig

Size:

1900 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG18096

GenBank Accession Number:

BC004821

GeneID (NCBI):

1727

UNIPROT ID:

P00387

Full Name:

cytochrome b5 reductase 3

Calculated MW:

33 kDa

Observed MW:

33 kDa

Purification Method:

Protein A purification

CloneNo.:

9C4D10

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:4000

IF/ICC 1:200-1:800

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Species Specificity:

human

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, human heart tissue, human plasma tissue, HepG2 cells, L02 cells

IHC: human liver cancer tissue, human liver tissue, human placenta tissue

IF/ICC: HeLa cells, HepG2 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.

Storage

Storage:

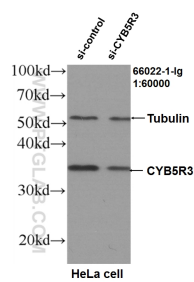
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

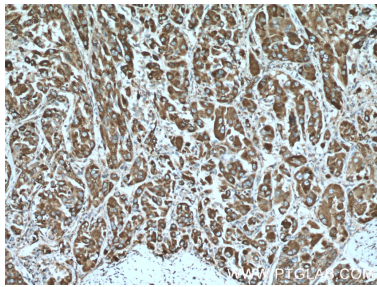
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

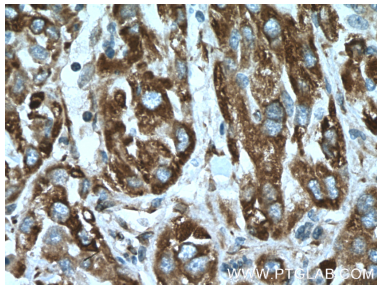
Selected Validation Data



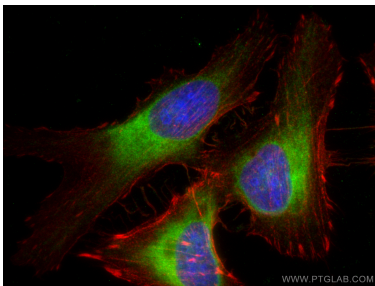
WB results of CYB5R3 antibody (66022-1-Ig, 1:60000) with si-Control and si-CYB5R3 transfected HeLa cells.



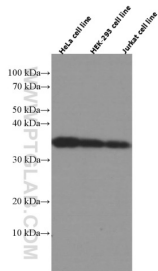
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66022-1-Ig (CYB5R3 antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66022-1-Ig (CYB5R3 antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CYB5R3 antibody (66022-1-Ig, Clone: 9C4D10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Western blot analysis of CYB5R3-specific in various tissues using Proteintech antibody 66022-1-Ig at dilution of 1:40000 incubated at room temperature for 1.5 hours.