

## CISD2 Polyclonal antibody

Catalog Number: 13318-1-AP

Featured Product

23 Publications

## Basic Information

## Catalog Number:

13318-1-AP

## Size:

150ul, Concentration: 750 µg/ml by Nanodrop and 347 µg/ml by Bradford method using BSA as the standard;

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG4172

## GenBank Accession Number:

BC032300

## GeneID (NCBI):

493856

## UNIPROT ID:

Q8N5K1

## Full Name:

CDGSH iron sulfur domain 2

## Calculated MW:

135 aa, 15 kDa

## Observed MW:

13-15 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:50-1:500

IF 1:200-1:800

## Applications

## Tested Applications:

FC, IF, IHC, IP, WB, ELISA

## Cited Applications:

IF, IHC, WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human, rat, mouse, Drosophila

**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: mouse kidney tissue, mouse brain tissue, mouse heart tissue, human brain tissue, rat kidney tissue

IP: mouse brain tissue,

IHC: human liver cancer tissue,

IF: HepG2 cells,

## Background Information

CISD2 gene encodes a 15 kDa CDGSH iron-sulfur domain-containing protein 2, which is also named Miner1 or NAF-1, this protein was reported on endoplasmic reticulum membrane or mitochondrion outer membrane. Defects in CISD2 are the cause of Wolfram syndrome type 2 (WFS2), a rare disorder characterized by juvenile-onset insulin-dependent diabetes mellitus with optic atrophy. CISD2 regulates autophagy program by interacting BCL2, contributing to antagonize BECN1-mediated cellular autophagy at the endoplasmic reticulum.

## Notable Publications

Author	Pubmed ID	Journal	Application
Luxin Liu	25134919	Med Oncol	WB, IHC
Bin Chen	26722601	Int J Clin Exp Pathol	WB, IHC
Simin Lu	25422446	Proc Natl Acad Sci U S A	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

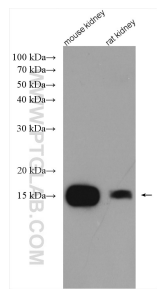
For technical support and original validation data for this product please contact:

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

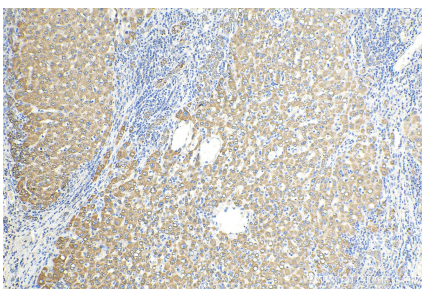
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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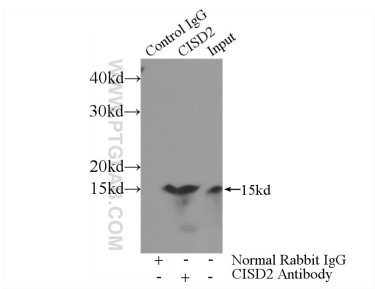
Selected Validation Data



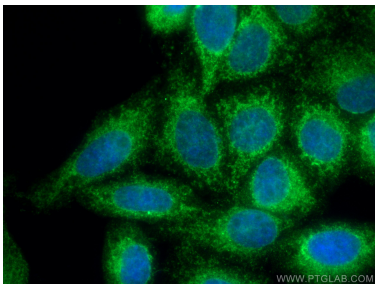
Various lysates were subjected to SDS PAGE followed by western blot with 13318-1-AP (CISD2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



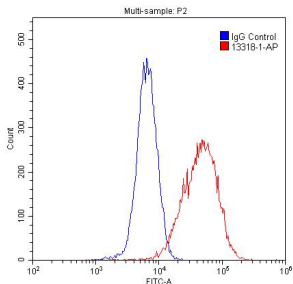
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 13318-1-AP (CISD2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CISD2 (IP:13318-1-AP, 3ug; Detection:13318-1-AP 1:700) with mouse brain tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CISD2 antibody (13318-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> HepG2 cells were stained with 0.2ug CISD2 antibody (13318-1-AP, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.