For Research Use Only

CISD2 Polyclonal antibody

Catalog Number:13318-1-AP Featured Product 28 Publications

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Basic Information

Catalog Number:
13318-1-AP

Size:
150ul , Concentration: 750 ug/ml by Nanodrop and 347 ug/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 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, 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/ICC : 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 the 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 the autophagy program by interacting with BCL2, contributing to antagonizing 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)
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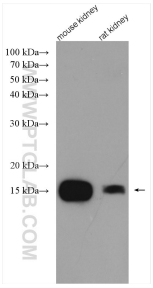
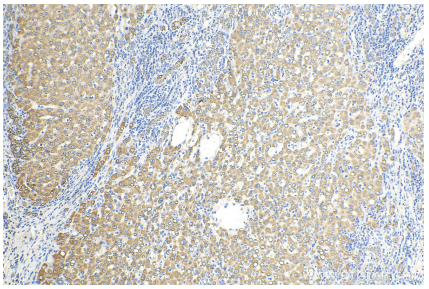
W: ptglab.com

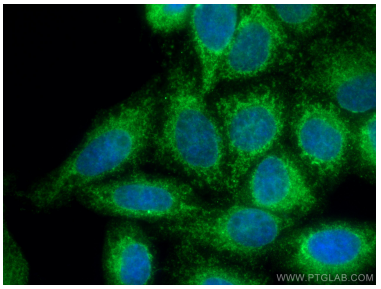
Selected Validation Data



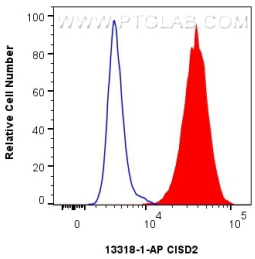
Various lysates were subjected to SDS PAGE followed by western blot with 13318-1-AP (CISD2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



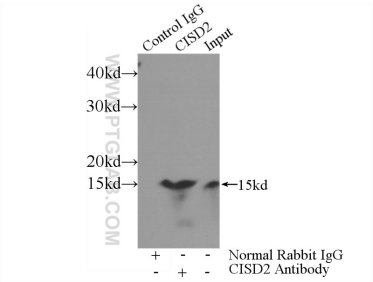
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 13318-1-AP (CISD2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug CISD2 Polyclonal antibody (13318-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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