For Research Use Only

CISD2-Specific Monoclonal antibody

Catalog Number:66082-1-Ig Featured Product 4 Publications

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Basic Information

Catalog Number:
66082-1-Ig

Size:
150ul , Concentration: 1653 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

GenBank Accession Number:
NM_001008388

GeneID (NCBI):
493856

UNIPROT ID:
Q8N5K1

Full Name:
CDGSH iron sulfur domain 2

Observed MW:
15 kDa

Purification Method:
Protein A purification

CloneNo.:
3D7A3

Recommended Dilutions:
WB 1:2000-1:16000
IHC 1:20-1:200
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, CoIP

Species Specificity:
human, zebrafish, rat, mouse

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 : fetal human brain tissue, MCF-7 cells, HeLa cells, ROS1728 cells, RAW 264.7 cells, zebrafish tissue

IHC : human kidney tissue, human testis tissue

IF/ICC : MCF-7 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. This monoclonal antibody is specific to CISD2 and does not cross-react with CISD1.

Notable Publications

Author	Pubmed ID	Journal	Application
Mailis Liiv	39034309	Nat Commun	WB,CoIP
Huiwen Xu	39003419	Commun Biol	WB
Aitor Martinez	38273330	Mol Neurodegener	

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
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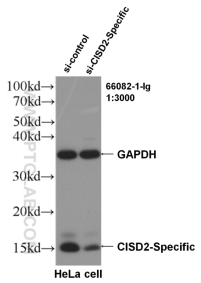
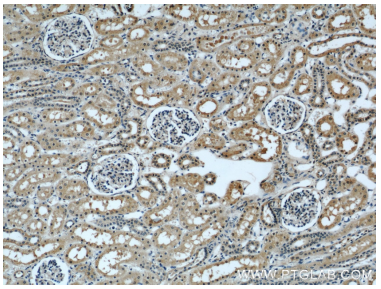
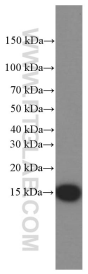
Selected Validation Data



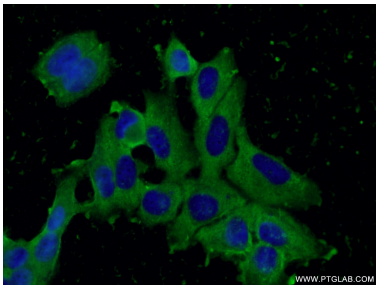
WB result of CISD2 antibody (66082-1-Ig, 1:3000) with si-Control and si-CISD2 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human kidney using 66082-1-Ig(CISD2-Specific antibody) at dilution of 1:50 (under 10x lens).



fetal human brain tissue were subjected to SDS PAGE followed by western blot with 66082-1-Ig (CISD2-Specific Antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 66082-1-Ig(CISD2-Specific antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated Goat Anti-Mouse IgG(H+L).