

For Research Use Only

# CISD2-Specific Monoclonal antibody

Catalog Number: 66082-1-Ig

Featured Product

4 Publications



## Basic Information

<b>Catalog Number:</b> 66082-1-Ig	<b>GenBank Accession Number:</b> NM_001008388	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 4000 µg/ml	<b>GeneID (NCBI):</b> 493856	<b>CloneNo.:</b> 3D7A3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8N5K1	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IHC 1:20-1:200 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> CDGSH iron sulfur domain 2	
	<b>Observed MW:</b> 15 kDa	

## Applications

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

**Cited Applications:**  
WB, ColP

**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, ColP
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

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

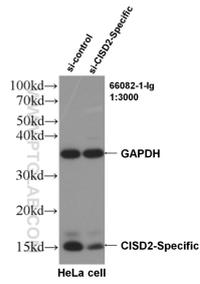
T: 4006900926

E: Proteintech-CN@ptglab.com

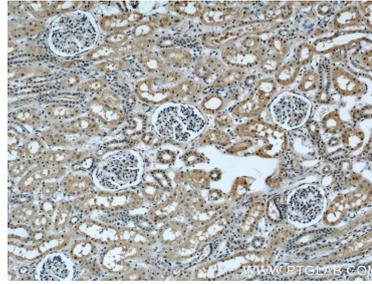
W: ptgcn.com

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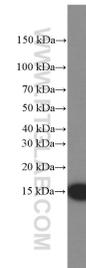
## Selected Validation Data



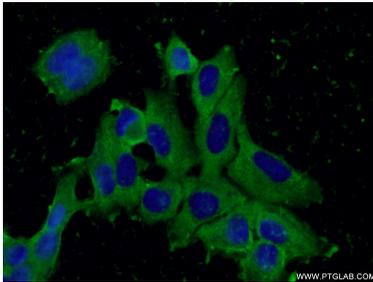
WB result of CISD2 antibody (66082-1-Ig, 1:3000) with si-Control and si-CISD2 transfected HeLa cells.



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).