

# CISD1

## Polyclonal ANTIBODY

Catalog Number: 16006-1-AP

12 Publications

### Basic Information

**Catalog Number:**  
16006-1-AP

**Size:**  
35 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification  
**Immunogen Catalog Number:**  
AC3680

**GenBank Accession Number:**  
BC007043

**GeneID (NCBI):**  
55847

**Full Name:**  
CDGSH iron sulfur domain 1

**Calculated MW:**  
108aa, 12 kDa

**Observed MW:**  
14-17 kDa

**Recommended Dilutions:**

WB 1:1000-1:4000

IP 0.5-4.0 µg for IP and 1:1000-1:4000 for WB

IHC 1:20-1:200

IF 1:10-1:100

### Applications

**Tested Applications:**

ELISA, FC, IF, IHC, IP, WB

**Cited Applications:**

IF, IHC, IP, WB

**Species Specificity:**

human, mouse, zebrafish, rat

**Cited Species:**

human, mouse, rat

**Positive Controls:**

**WB** : mouse skeletal muscle tissue; HepG2 cells, human skeletal muscle tissue, mouse heart tissue, rat heart tissue

**IP** : HepG2 cells;

**IHC** : human heart tissue; human spleen tissue, human kidney tissue, human testis tissue, human placenta tissue, human brain tissue, human ovary tissue, human liver tissue

**IF** : HeLa cells;

### Background Information

MtoNEET, also named CISD1, belongs to a previously uncharacterized ancient family of proteins for which the hallmark is the presence of a unique 39 amino acid CDGSH domain. It is a single-pass type III membrane protein, located in mitochondrion outer membrane and may play a role in regulating maximal capacity for electron transport and oxidative phosphorylation. MtoNEET is a recently identified drug target for a commonly prescribed diabetes drug, Pioglitazone. This antibody recognizing MtoNEET (calculated 12 kDa) as a 17 kDa protein may be due to its posttranslational modification or metal binding activity.

### Notable Publications

Author	Pubmed ID	Journal	Application
Werner J Goldenhuys	28880525	ACS Chem Neurosci	WB, IHC, IF
Yu-Chiang Lai	26471730	EMBO J	WB
Alban Ordureau	25284222	Mol Cell	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

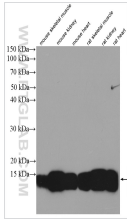
For technical support and original validation data for this product please contact:

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

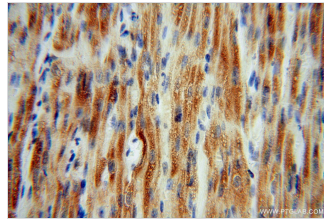
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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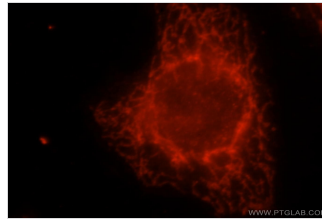
**Selected Validation Data**



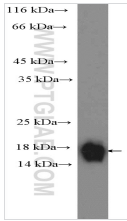
Various lysates were subjected to SDS PAGE followed by western blot with 16006-1-AP (CISD1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours



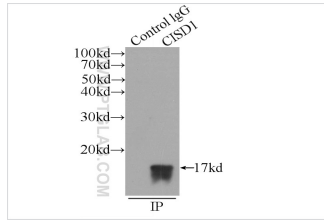
Immunohistochemical of paraffin-embedded human heart using 16006-1-AP(CISD1 antibody) at dilution of 1:100 (under 40x lens)



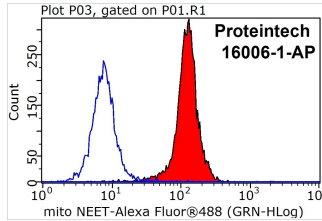
Immunofluorescent analysis of HeLa cells, using CISD1 antibody 16006-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 16006-1-AP( mitoNEET,CISD1 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



IP Result of anti-CISD1 (IP:16006-1-AP, 3ug; Detection:16006-1-AP 1:2000) with HepG2 cells lysate 600ug.



1x10<sup>6</sup> HeLa cells were stained with .05ug mitoNEET,CISD1 antibody (16006-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-Goat anti-Rabbit IgG with dilution 1:100.