

CISD1

Polyclonal ANTIBODY

Catalog Number: 16006-1-AP

15 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 1:25-1:100

Applications

Tested Applications:

FC, IF, IHC, IP, WB, ELISA

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

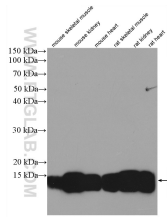
For technical support and original validation data for this product please contact:

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

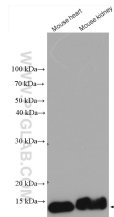
E: proteintech@ptglab.com
W: ptglab.com

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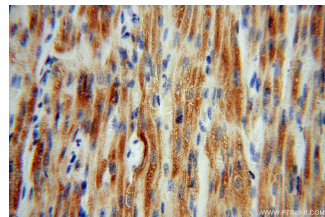
Selected Validation Data



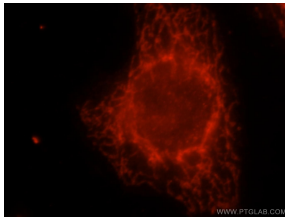
Various lysates were subjected to SDS PAGE followed by western blot with 16006-1-AP (CISD1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours



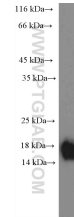
Various lysates were subjected to SDS PAGE followed by western blot with 16006-1-AP (CISD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours



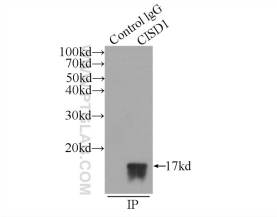
Immunohistochemical of paraffin-embedded human heart using 16006-1-AP(CISD1 antibody) at dilution of 1:100 (under 40x lens)



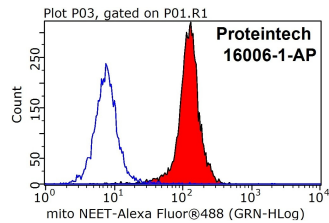
Immunofluorescent analysis of HeLa cells, using CISD1 antibody 16006-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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.



1X10⁶ 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.