

CISD1

Polyclonal ANTIBODY

Catalog Number: 16006-1-AP

16 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

Note: 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 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 Geldenhuys	28880525	ACS Chem Neurosci	WB,IHC,IF
Yu-Chiang Lai	26471730	EMBO J	WB
J-M Heo	30627666	Sci Adv	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

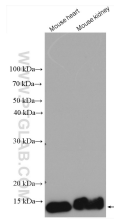
For technical support and original validation data for this product please contact:

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

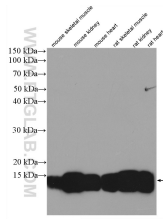
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

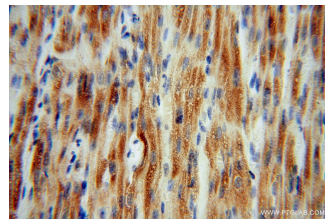
Selected Validation Data



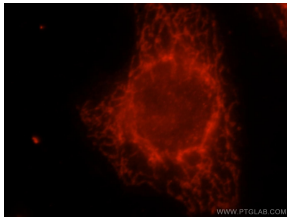
Various lysates were subjected to SDS PAGE followed by western blot with 16006-1-AP (CISD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours



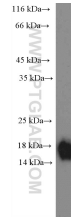
Various lysates were subjected to SDS PAGE followed by western blot with 16006-1-AP (CISD1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours



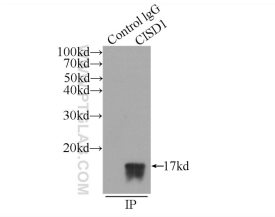
Immunohistochemical of paraffin-embedded human heart using 16006-1-AP(CISD1 antibody) at dilution of 1:100 (under 40x lens)



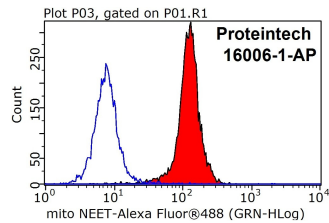
Immunofluorescent analysis of HeLa cells, using CISD1 antibody 16006-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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.



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.