## For Research Use Only

## CISD1 Monoclonal antibody

Catalog Number: 68030-1-Ig



**Basic Information** 

Catalog Number: GenBank Accession Number: 68030-1-lg BC007043

 Size:
 GeneID (NCBI):

 1000 μ g/ml
 55847

 Source:
 UNIPROT ID:

 Mouse
 Q9NZ45

 Isotype:
 Full Name:

IgG1 CDGSH iron sulfur domain 1

Immunogen Catalog Number:Calculated MW:AG8560108 aa, 12 kDaObserved MW:

14-17 kDa

Purification Method:

Protein G purification CloneNo.:

1D7E3

Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:200-1:800

**Applications** 

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

human, mouse, rat, pig, rabbit, chicken

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: LNCaP cells, HeLa cells, HEK-293 cells, pig brain tissue, rabbit brain tissue, rat brian tissue, mouse brain tissue, chicken brain tissue, mouse cerebellum tissue

IHC: human pancreas cancer tissue,

IF/ICC: H9C2 cells,

## **Background Information**

MitoNEET, 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. MitoNEET is a recently identified drug target for a commonly prescribed diabetes drug, Pioglitazone. This antibody recognizing MitoNEET (calculated 12 kDa) as a 17 kDa protein may be due to its posttranslational modification or metal binding activity.

Storage

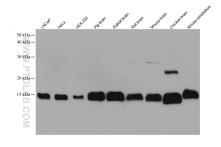
Storage

Store at -20°C. Stable for one year after shipment. Storage Buffer:

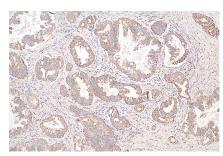
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

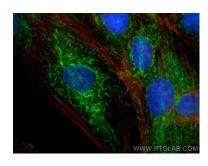
## **Selected Validation Data**



Various lysates were subjected to SDS PAGE followed by western blot with 68030-1-lg (CISD1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 68030-1-Ig (CISD1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed H9C2 cells using CISD1 antibody (68030-1-lg, Clone: 1D7E3) at dilution of 1:400 and CoraLite® 488-Conjugated Affini Pure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).