

# CISD1 Monoclonal antibody

Catalog Number: 68030-1-Ig

## Basic Information

Catalog Number: 68030-1-Ig	GenBank Accession Number: BC007043	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 55847	CloneNo.: 1D7E3
Source: Mouse	UNIPROT ID: Q9NZ45	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000
Isotype: IgG1	Full Name: CDGSH iron sulfur domain 1	
Immunogen Catalog Number: AG8560	Calculated MW: 108 aa, 12 kDa Observed MW: 14-17 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, mouse, rat, chicken, rabbit, pig

**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 brain tissue, mouse brain tissue, chicken brain tissue, mouse cerebellum tissue

IHC : human pancreas cancer tissue,

## 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:

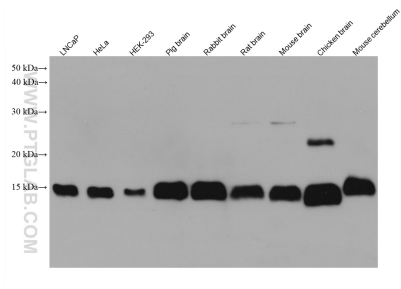
Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

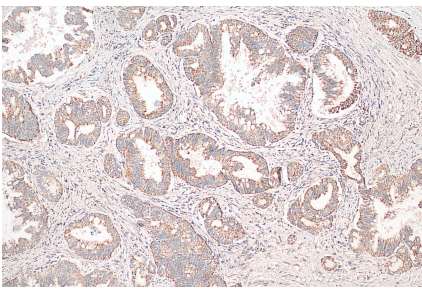
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



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



Immunohistochemical analysis of paraffin-embedded 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).