For Research Use Only

CoraLite® Plus 488-conjugated CISD1 Monoclonal antibody

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Catalog Number:CL488-68030

Basic Information

Catalog Number:
CL488-68030

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG8560

GenBank Accession Number:
BC007043

GeneID (NCBI):
55847

UNIPROT ID:
Q9NZ45

Full Name:
CDGSH iron sulfur domain 1

Calculated MW:
108 aa, 12 kDa

Observed MW:
14-17 kDa

Purification Method:
Protein G purification

CloneNo.:
1D7E3

Recommended Dilutions:
IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Species Specificity:
human, mouse, rat, rabbit, chicken

Positive Controls:

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. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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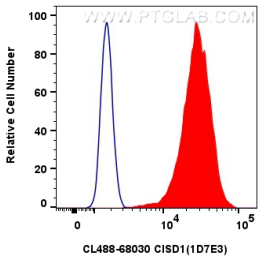
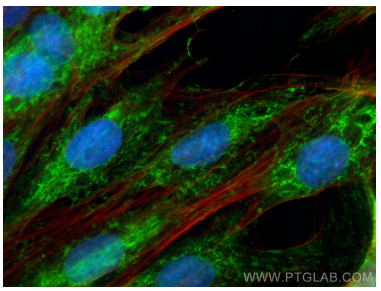
Selected Validation Data



1x10^6 HeLa cells were intracellularly stained with 0.8 ug CoraLite® Plus 488-conjugated CISD1 Monoclonal antibody (CL488-68030, Clone:1D7E3) (red), or 0.8 ug CoraLite® Plus 488 Mouse IgG1 Isotype Control (MOPC-21) (CL488-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed H9C2 cells using CoraLite® Plus 488 CISD1 antibody (CL488-68030, Clone: 1D7E3) at dilution of 1:200, CL594-phalloidin (red).