

CoraLite® Plus 488-conjugated ATP5O Monoclonal antibody

Catalog Number: **CL488-66696**

Basic Information

Catalog Number:

CL488-66696

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG1458

GenBank Accession Number:

BC021233

GeneID (NCBI):

539

UNIPROT ID:

P48047

Full Name:ATP synthase, H⁺ transporting,
mitochondrial F1 complex, O subunit**Calculated MW:**

23 kDa

Observed MW:

23-25 kDa

Purification Method:

Protein G purification

CloneNo.:

1D3B8

Recommended Dilutions:

IF/ICC 1:50-1:500

**Excitation/Emission maxima
wavelengths:**

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

Human

Positive Controls:

IF/ICC : HepG2 cells,

Background Information

ATP5O(ATP synthase subunit O, mitochondrial) is also named as ATPO, OSCP and belongs to the ATPase delta chain family. The gene encodes the oligomycin sensitivity-conferring protein (OSCP) of ATP synthase. The predicted polypeptide is 213 amino acids long with more than 80% identity to the bovine and mouse homologs and it is expressed at highest levels in muscle and heart by the northern blot(PMID:7490082). Many studies have indicated that mitochondrial dysfunction is central to the development of most age-related human diseases including neurodegenerative diseases, cancer, and type 2 diabetes.

Storage

Storage:

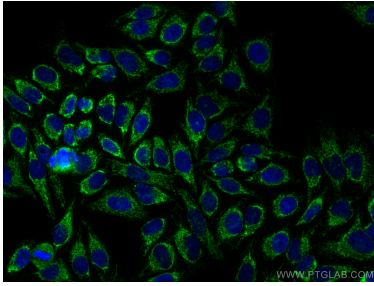
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488 ATP5O antibody (CL488-66696, Clone: 1D3B8) at dilution of 1:200.