CoraLite® Plus 488-conjugated COXIV Monoclonal antibody

Proteintech®
Antibodies | ELISA kits | Proteins
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Catalog Number:**CL488-60251**   **2 Publications**

Basic Information

Catalog Number:
CL488-60251

Concentration:
1000 ug/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG20551

GenBank Accession Number:
BC021236

GeneID (NCBI):
1327

UNIPROT ID:
P13073

Full Name:
cytochrome c oxidase subunit IV isoform 1

Calculated MW:
19.6 kDa

Observed MW:
17-18 kDa

Purification Method:
Protein G purification

CloneNo.:
3C7D2

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 0.40 ug per 10^6 cells in a 100 μl suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Cited Applications:
IF

Species Specificity:
human, mouse

Cited Species:
mouse

Positive Controls:

IF/ICC : HepG2 cells,

FC (Intra) : HeLa cells,

Background Information

COX4I1, also named as COX4 and COXIV-1, belongs to the cytochrome c oxidase IV family. It is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. COX4I1 is a marker for mitochondria. It has two isoforms (isoform 1 and 2). Isoform 1(COX4I1) is ubiquitously expressed and isoform 2 is highly expressed in lung tissues. COX4I1 is commonly used as a loading control. This antibody is specific to COX4I1 and do not cross reacts with COX4I2.

Notable Publications

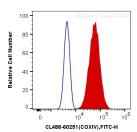| Author	Pubmed ID	Journal	Application
Yanzhen Tan	33607155	Life Sci	IF
Yavuz F Yazicioglu	37095377	Nat Immunol	FC

Storage

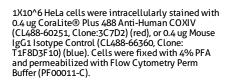**Storage:**
Store at -20℃. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

1X10^6 HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human COXIV (CL488-60251, Clone:3C7D2) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL488-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488 COXIV antibody (CL488-60251, Clone: 3C7D2) at dilution of 1:200, CL594-phalloidin (red).