For Research Use Only

CoraLite®594-conjugated Aconitase 2 Monoclonal antibody

Catalog Number:CL594-67509

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Basic Information

Catalog Number:
CL594-67509

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG17784

GenBank Accession Number:
BC014092

GeneID (NCBI):
50

UNIPROT ID:
Q99798

Full Name:
aconitase 2, mitochondrial

Calculated MW:
85 kDa

Observed MW:
85 kDa

Purification Method:
Protein G purification

CloneNo.:
1F1G4

Recommended Dilutions:
FC (Intra): 0.80 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human, mouse, rat, pig

Positive Controls:

FC (Intra) : HeLa cells,

Background Information

ACO2(aconitate hydratase, mitochondrial) is also named as citrate hydro-lyase and belongs to the aconitase/IPM isomerase family. It plays a key function in cellular energy production, and loss of its activity has a major impact on cellular and organismal survival. Western blot shows two bands of 83 kDa and 40 kDa. The 40 kDa fragment decreases with age and oxidative stress, whereas other fragmentation products with molecular weights between 40 and 83 kDa increased with age and MnSOD(mitochondrial manganese superoxide dismutase) deficiency(PMID:12459471). Defects in ACO2 are the cause of infantile cerebellar-retinal degeneration (ICRD).

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, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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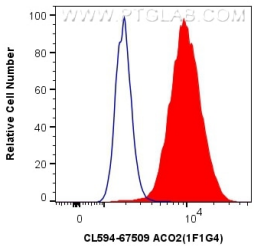
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10^6 HeLa cells were intracellularly stained with 0.8 ug CoraLite®594 Anti-Human ACO2 (CL594-67509, Clone:1F1G4) (red), or 0.8 ug CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.