

For Research Use Only

# CoraLite®594-conjugated ACO2 Monoclonal antibody



Catalog Number:CL594-67509

## Basic Information

<b>Catalog Number:</b> CL594-67509	<b>GenBank Accession Number:</b> BC014092	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by 50 Nanodrop;	<b>GeneID (NCBI):</b> Full Name: aconitase 2, mitochondrial	<b>CloneNo.:</b> 1F1G4
<b>Source:</b> Mouse	<b>Calculated MW:</b> 85 kDa	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Isotype:</b> IgG1	<b>Observed MW:</b> 85 kDa	
<b>Immunogen Catalog Number:</b> AG17784		

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
Human, Mouse, Rat, Pig

## 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, pH 7.3.

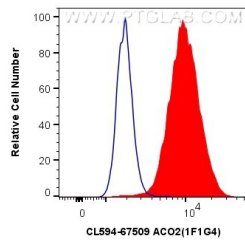
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

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 W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.8  $\mu$ g CoraLite®594 Anti-Human AC02 (CL594-67509, Clone:1F1G4) (red), or 0.8  $\mu$ g 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 (PF00011-C).