

For Research Use Only

# Aconitase 1 Polyclonal antibody

Catalog Number: 12406-1-AP **8 Publications**



## Basic Information

**Catalog Number:**

12406-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3083

**GenBank Accession Number:**

BC018103

**GeneID (NCBI):**

48

**UNIPROT ID:**

P21399

**Full Name:**

aconitase 1, soluble

**Calculated MW:**

889 aa, 98 kDa

**Observed MW:**

98 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:50-1:500

## Applications

**Tested Applications:**

WB, IP, IF/ICC, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

**WB:** HeLa cells, mouse liver tissue, mouse kidney tissue, HepG2 cells, rat liver tissue

**IP:** HepG2 cells, mouse liver tissue

**IF:** U2OS cells,

## Background Information

Mammalian cells possess two distinct isoforms of aconitase encoded by different genes: Aconitase 1 [ACO1; cytosolic aconitase (c-aconitase)] encoded by ACO1 and Aconitase 2 [ACO2; mitochondrial aconitase (m-aconitase)] encoded by ACO2. In addition to the enzymatic roles in the cytoplasm, ACO1 also is known to bind to mRNAs of specific genes and maintain iron homeostasis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lalit Pukhrambam Singh	35187384	JOJ Ophthalmol	WB
Haipeng Cheng	34175430	Biochim Biophys Acta Mol Basis Dis	WB
Sara Ceccacci	32498414	Biomolecules	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

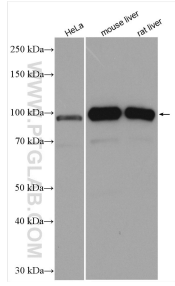
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

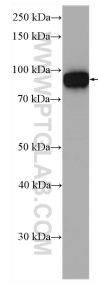
W: [ptgcn.com](http://ptgcn.com)

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

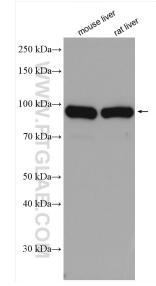
## Selected Validation Data



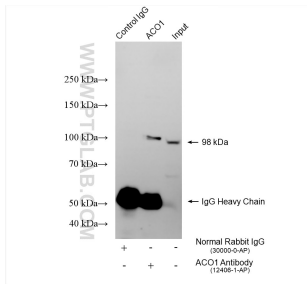
Various lysates were subjected to SDS PAGE followed by western blot with 12406-1-AP (Aconitase 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



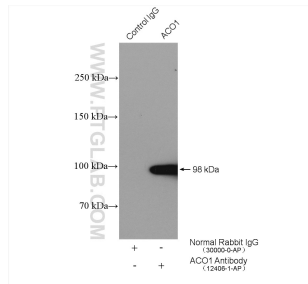
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 12406-1-AP (Aconitase 1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



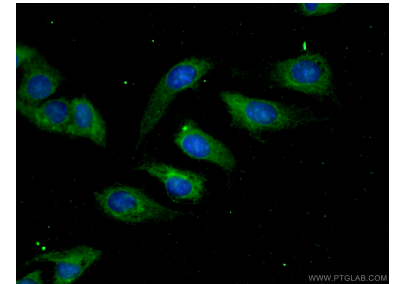
Various lysates were subjected to SDS PAGE followed by western blot with 12406-1-AP (Aconitase 1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-Aconitase 1 (IP:12406-1-AP, 4ug; Detection:12406-1-AP 1:5000) with HepG2 cells lysate 1925 ug.



IP result of anti-Aconitase 1 (IP:12406-1-AP, 4ug; Detection:12406-1-AP 1:300) with mouse liver tissue lysate 2400 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using 12406-1-AP (Aconitase 1 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).