

For Research Use Only

Aconitase 1 Polyclonal antibody

Catalog Number: 12406-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

12406-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, mouse liver tissue, rat liver tissue

IP : HepG2 cells,

IHC : human stomach tissue,

IF-P : mouse liver tissue,

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

*** 20ul sizes contain 0.1% BSA

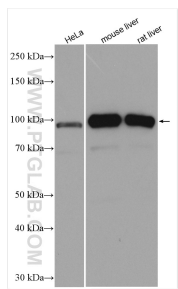
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

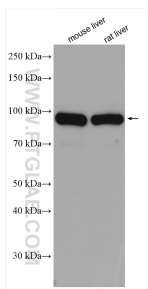
E: proteintech@ptglab.com
W: ptglab.com

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

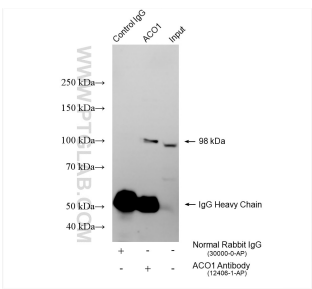
Selected Validation Data



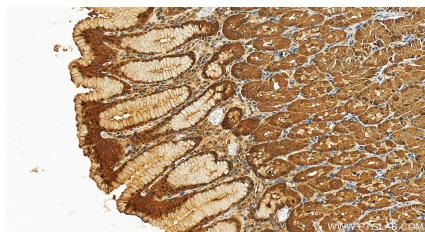
Various lysates were subjected to SDS PAGE followed by western blot with 12406-1-AP (Aconitase 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



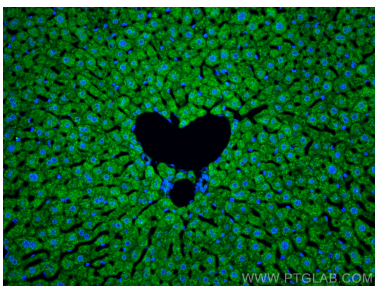
Various lysates were subjected to SDS PAGE followed by western blot with 12406-1-AP (Aconitase 1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 12406-1-AP (Aconitase 1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Aconitase 1 antibody (12406-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).