

For Research Use Only

Aconitase 1 Polyclonal antibody

Catalog Number: 12406-1-AP

8 Publications



Basic Information

Catalog Number:

12406-1-AP

Size:

150ul, Concentration: 500 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3083

GenBank Accession Number:

BC018103

GeneID (NCBI):

48

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 IP and 1:200-1:1000 for WB

IF 1:50-1:500

Applications

Tested Applications:

IF, IP, WB, ELISA

Cited Applications:

IHC, WB

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: 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	IOJ 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

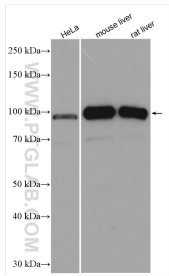
For technical support and original validation data for this product please contact:

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

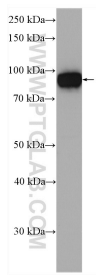
E: proteintech@ptglab.com
W: ptglab.com

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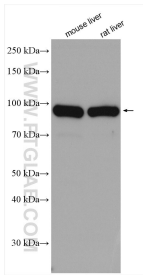
Selected Validation Data



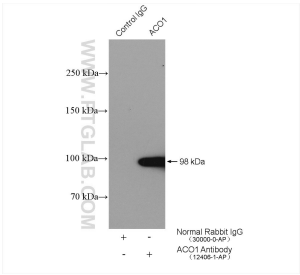
Various lysates were subjected to SDS PAGE followed by western blot with 12406-1-AP (Aconitase 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



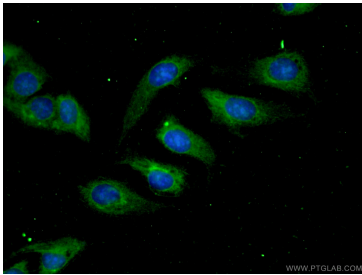
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 12406-1-AP (Aconitase 1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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 1:300) 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).