

A4524

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Aconitase 2 (ACO2) Rabbit mAb

Catalog No.: A4524

Recombinant

3 Publications

Basic Information

Observed MW

85kDa

Calculated MW

85kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

WB, IHC-P, IF/ICC, ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC1072

Background

The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15 (PRSS15), also known as Lon protease, after oxidative modification.

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

50

Swiss Prot

Q99798

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-150 of human Aconitase 2 (ACO2) (Q99798).

Synonyms

ICRD; OCA8; OPA9; ACONM; HEL-S-284; Aconitase 2 (ACO2)

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

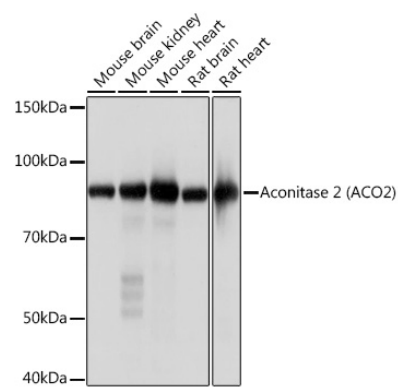
Affinity purification

Storage

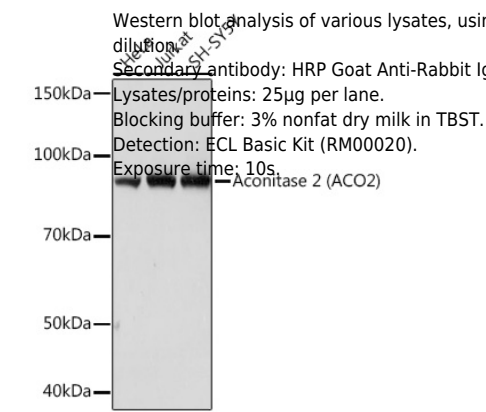
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

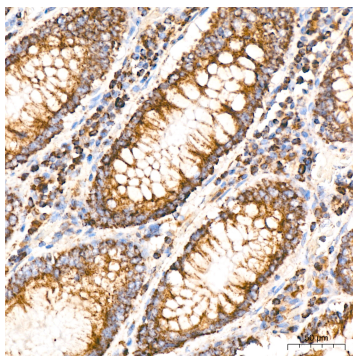
Validation Data



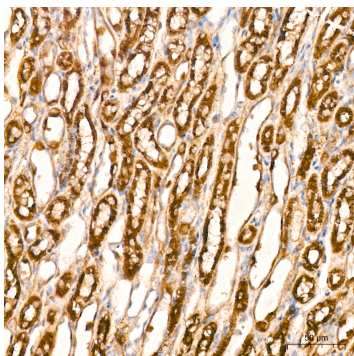
Western blot analysis of various lysates, using Aconitase 2 (ACO2) (ACO2) Rabbit mAb (A4524) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



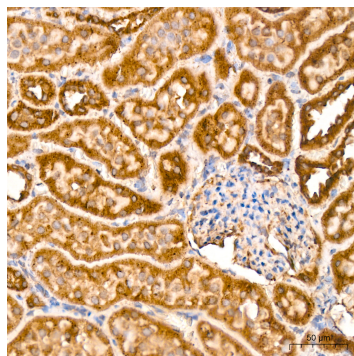
Western blot analysis of various lysates, using Aconitase 2 (ACO2) (ACO2) Rabbit mAb (A4524) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunohistochemistry analysis of Aconitase 2 (ACO2) in paraffin-embedded human colon tissue using Aconitase 2 (ACO2) Rabbit mAb (A4524) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

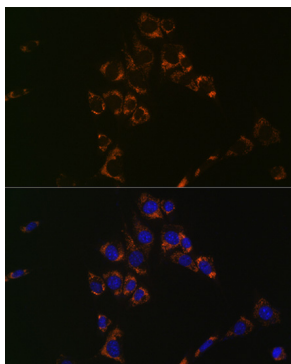


Immunohistochemistry analysis of Aconitase 2 (ACO2) in paraffin-embedded mouse kidney tissue using Aconitase 2 (ACO2) Rabbit mAb (A4524) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Aconitase 2 (ACO2) in paraffin-embedded rat kidney tissue using Aconitase 2 (ACO2) Rabbit mAb (A4524) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Validation Data



Immunofluorescence analysis of NIH-3T3 cells using Aconitase 2 (ACO2) (ACO2) Rabbit mAb (A4524) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.