

Aconitase 2 (ACO2) Rabbit mAb

Catalog No.: A4524 **Recombinant** **3 Publications**

Basic Information

Observed MW

85kDa

Calculated MW

85kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC1072

Recommended Dilutions

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

Contact

 | www.abclonal.com

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.

Immunogen Information

Gene ID	Swiss Prot
50	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)

Product Information

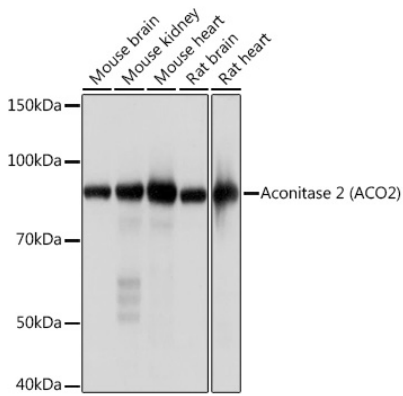
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

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

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH 7.3.

Validation Data



Western blot analysis of various lysates, using Aconitase 2 (ACO2) (ACO2) Rabbit mAb (A4524) at 1:1000 dilution.

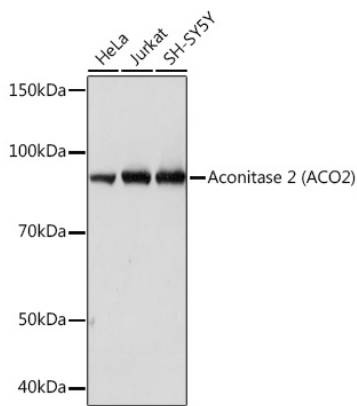
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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.

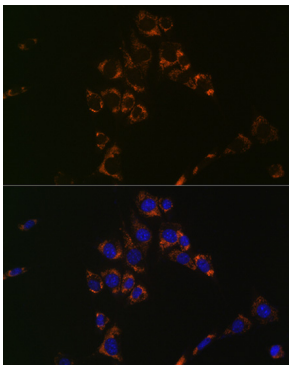
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

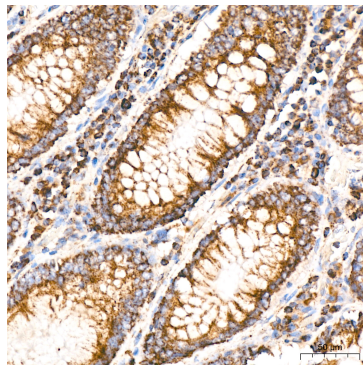
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

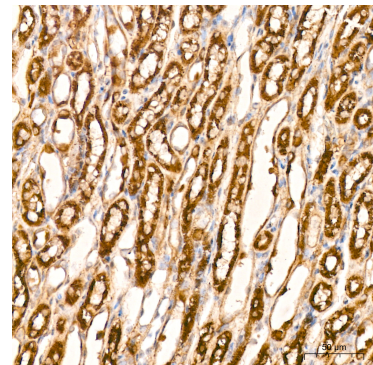
Exposure time: 10s.



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.

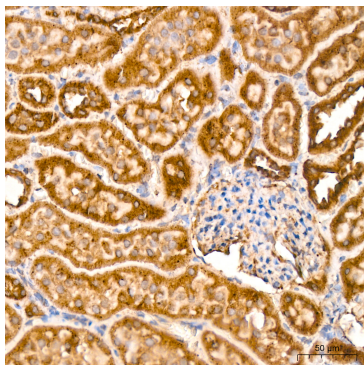


Immunohistochemistry analysis of Aconitase 2 (ACO2) in paraffin-embedded human colon tissue using Aconitase 2 (ACO2) Rabbit mAb (A4524) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



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.

Validation Data



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.