

**Anti-Aconitase 2 Picoband Antibody**  
Catalog # ABO12658**Specification****Anti-Aconitase 2 Picoband Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">Q99798</a> |
| Host              | Rabbit                 |
| Reactivity        | Human, Mouse, Rat      |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for Aconitase hydratase, mitochondrial(ACO2) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Aconitase 2 Picoband Antibody - Additional Information**

**Gene ID** 50

**Other Names**

Aconitase hydratase, mitochondrial, Aconitase, 4.2.1.3, Citrate hydro-lyase, ACO2

**Calculated MW**

85425 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Mitochondrion .

**Protein Name**

Aconitase hydratase, mitochondrial

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Aconitase 2 (561-596aa TSQRLQLLEPFDKWDGKDLEDLQILIKVKGKCTTDH), identical to the related mouse and rat sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

## Anti-Aconitase 2 Picoband Antibody - Protein Information

**Name** ACO2

### Function

Catalyzes the isomerization of citrate to isocitrate via cis- aconitate.

### Cellular Location

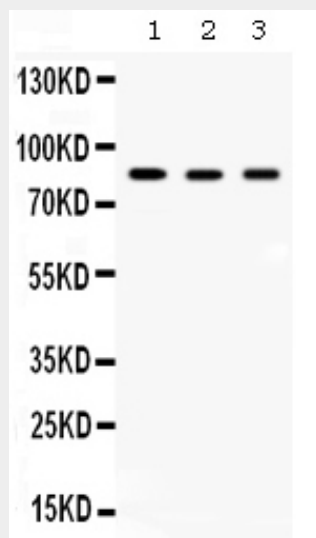
Mitochondrion {ECO:0000250|UniProtKB:P16276}.

## Anti-Aconitase 2 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Aconitase 2 Picoband Antibody - Images



Western blot analysis of Aconitase 2 expression in rat skeletal muscle extract (lane 1), mouse brain extract (lane 2) and HELA whole cell lysates (lane 3). Aconitase 2 at 85KD was detected using rabbit anti- Aconitase 2 Antigen Affinity purified polyclonal antibody (Catalog # ABO12658)

at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

### **Anti-Aconitase 2 Picoband Antibody - Background**

Aconitase 2, mitochondrial is a protein that in humans is encoded by the ACO2 gene. 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.