

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

Anti-Aconitase 2 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q99798
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Aconitate 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

Aconitate 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

Subcellular Localization

Mitochondrion .

Protein Name

Aconitate hydratase, mitochondrial

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

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 reconstitution, 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

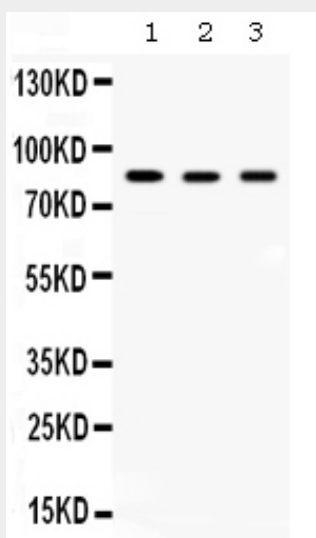
Mitochondrion {ECO:0000250|UniProtKB:P16276}.

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.