

Datasheet for ABIN2778793  
**anti-Aconitase 1 antibody (N-Term)**

8 Images

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## Overview

Quantity:	100 µL
Target:	Aconitase 1 (ACO1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Rabbit, Pig, Dog, Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aconitase 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ACO1
Sequence:	MSNPFAHLAE PLDPVQPGKK FFNLNKLEDS RYGRLPFSIR VLLEAAIRNC
Predicted Reactivity:	Cow: 100%, Dog: 93%, Guinea Pig: 91%, Horse: 92%, Human: 100%, Mouse: 93%, Pig: 100%, Rabbit: 86%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against ACO1. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

## Target Details

Target:	Aconitase 1 (ACO1)
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## Target Details

Alternative Name:	ACO1 ( <a href="#">ACO1 Products</a> )
Background:	<p>ACO1, also known as iron regulatory element binding protein 1 (IREB1), is a cytosolic protein which binds to iron-responsive elements (IREs). It plays a central role in cellular iron homeostasis. It was also shown to have aconitase activity, and hence grouped with the aconitase family of enzymes. Aconitase 1, also known as iron regulatory element binding protein 1 (IREB1), is a cytosolic protein which binds to iron-responsive elements (IREs). IREs are stem-loop structures found in the 5' UTR of ferritin mRNA, and in the 3' UTR of transferrin receptor mRNA. The iron-induced binding to the IRE results in repression of translation of ferritin mRNA, and inhibition of degradation of the otherwise rapidly degrading transferrin receptor mRNA. Thus, IREB1 plays a central role in cellular iron homeostasis. It was also shown to have aconitase activity, and hence grouped with the aconitase family of enzymes.</p> <p>Alias Symbols: IRP1, ACONS, IREB1, IREBP, IREBP1</p> <p>Protein Interaction Partner: UBC, FBXL5, DCPS, STRAP, FUBP1, PSMG1, HIST1H2AB, LGALS1, CTPS1, C12orf57, APP, AKT1,</p> <p>Protein Size: 889</p>
Molecular Weight:	98 kDa
Gene ID:	48
NCBI Accession:	<a href="#">NM_002197</a> , <a href="#">NP_002188</a>
UniProt:	<a href="#">P28271</a>
Pathways:	<a href="#">Transition Metal Ion Homeostasis</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 889 AA
Restrictions:	For Research Use only

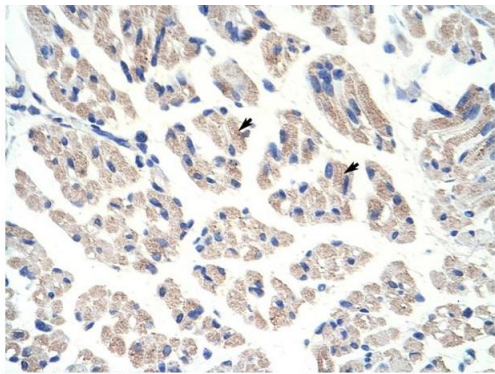
## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

## Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

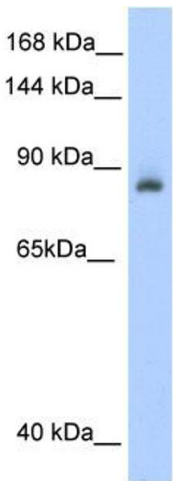
## Images



Rabbit Anti-ACO1 Antibody  
Catalog Number: ARP40390  
Lot Number: QC9476  
Paraffin Embedded Tissue: Human Muscle  
Cells with Positive label: Skeletal muscle cells (Indicated with Arrows)  
Antibody Concentration: 12.0 µg/ml  
Magnification: 400X

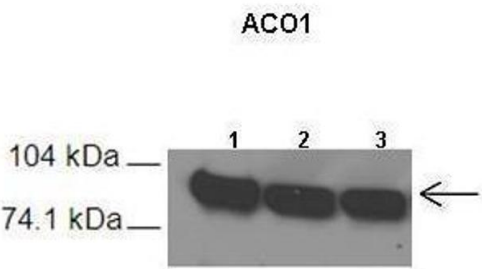
### Immunohistochemistry

**Image 1.** Rabbit Anti-ACO1 Antibody Paraffin Embedded  
Tissue: Human Muscle Cellular Data: Skeletal muscle cells  
Antibody Concentration: 4.0-8.0 ug/ml Magnification: 400X



### Western Blotting

**Image 2.** WB Suggested Anti-ACO1 Antibody Titration: 0.2-1  
ug/ml ELISA Titer: 1:62500 Positive Control: Human kidney



**Western Blotting**

**Image 3.** Lanes: 1. 60 ug mouse liver extract 2. 60 ug mouse liver extract 3. 60 ug mouse liver extract Primary Antibody Dilution: 1:500 Secondary Antibody: Anti-rabbit HRP Secondary Antibody Dilution: 1:3000 Gene Name: ACO1 Submitted by: Dr. Hao Zhu, University of Kansas Medical Center

See Immunoblot 2 Data and Customer Feedback for more information

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN2778793.