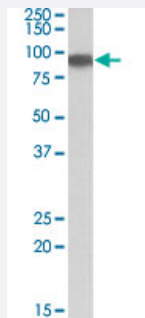


# ACO2 polyclonal antibody

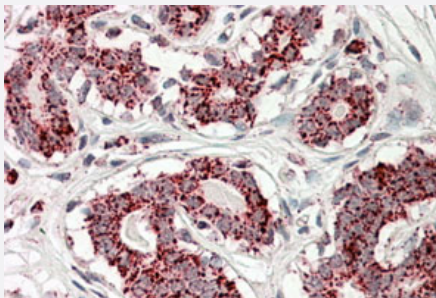
Catalog # PAB18539      Size 100 ug

## Applications



### Western Blot (Tissue lysate)

ACO2 polyclonal antibody (Cat # PAB18539) (0.01 ug/mL) staining of human heart lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

ACO2 polyclonal antibody (Cat # PAB18539) (3.8 ug/mL) staining of paraffin embedded human breast. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

## Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ACO2.
Immunogen	A synthetic peptide corresponding to internal region of human ACO2.
Sequence	C-QHVDVSPTSQRLQ
Host	Goat
Theoretical MW (kDa)	90
Reactivity	Human
Form	Liquid

<b>Purification</b>	Antigen affinity purification
<b>Concentration</b>	0.5 mg/mL
<b>Recommend Usage</b>	ELISA (1:32000) Western Blot (0.01-0.03 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (3-5 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 0.5 mg/mL Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)
<b>Storage Instruction</b>	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Tissue lysate)

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — ACO2

<b>Entrez GeneID</b>	<a href="#">50</a>
<b>Protein Accession#</b>	<a href="#">NP_001089.1</a>
<b>Gene Name</b>	ACO2
<b>Gene Alias</b>	ACONM, MGC20605, MGC33908
<b>Gene Description</b>	aconitase 2, mitochondrial
<b>Omim ID</b>	<a href="#">100850</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

OTTHUMP00000042146|OTTHUMP00000165920|aconitase 2|aconitate hydratase|citrate hydro-lyase

## Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glyoxylate and dicarboxylate metabolism](#)
- [Metabolic pathways](#)
- [Reductive carboxylate cycle \(CO2 fixation\)](#)