

Datasheet for ABIN2786627 anti-ACO2 antibody (N-Term)



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Overview

Quantity:	100 µL
Target:	ACO2
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Cow, Dog, Saccharomyces cerevisiae, Rabbit, Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACO2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ACO2
Sequence:	LQFISSGLSK VAVPSTIHCD HLIEAQVGGE KDLRRAKDIN QEVYNFLATA
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 86%
Characteristics:	This is a rabbit polyclonal antibody against ACO2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ACO2
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Target Details

Alternative Name:	ACO2 (ACO2 Products)
Background:	<p>ACO2 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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: ACONM, MGC20605, MGC33908</p> <p>Protein Interaction Partner: SUMO2, UBC, SUMO1, NEDD8, MDM2, ASB9, VCAM1, ITGA4, AK3, SIN3A, ACAA2, APP, ACAT1, ATXN1L, SUMO4, PSMD4, SRRM2,</p> <p>Protein Size: 780</p>
Molecular Weight:	82 kDa
Gene ID:	50
NCBI Accession:	NM_001098 , NP_001089
UniProt:	Q99798

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 780 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.

Publications

Product cited in:	Schauer, Freund, Prenni, Curthoys: "Proteomic profiling and pathway analysis of the response of rat renal proximal convoluted tubules to metabolic acidosis." in: American journal of physiology. Renal physiology , Vol. 305, Issue 5, pp. F628-40, (2013) (PubMed).
	Freund, Prenni, Curthoys: "Response of the mitochondrial proteome of rat renal proximal convoluted tubules to chronic metabolic acidosis." in: American journal of physiology. Renal physiology , Vol. 304, Issue 2, pp. F145-55, (2013) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-ACO2 Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:62500

Positive Control: 721_B cell lysate

Western Blotting

Image 2.

