Datasheet for ABIN357262

anti-ACO2 antibody (Center)

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Overview

Quantity:	0.4 mL
Target:	ACO2
Binding Specificity:	Center
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACO2 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the central region of human Aconitase.
Isotype:	Ig Fraction
Specificity:	This antibody detects ACO2 at center.
Purification:	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS

Target Details

Target:	ACO2
Alternative Name:	ACO2 (ACO2 Products)

Target Details

Background:	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.Synonyms: Aconitase 2, Aconitate hydratase mitochondrial
Molecular Weight:	85425 Da.
Gene ID:	50, 9606
UniProt:	Q99798

Application Details

Application Notes:	ELISA 1: 1,000. Western blot 1: 100 - 1: 500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS with 0.09 % (W/V) sodium azide
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 freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer.

Publications

Product cited in:	Gui, Han, Zhang, Liang, Wang, Xuan, Yu, Shang: "Dimerization of ZIP promotes its transcriptional repressive function and biological activity." in: **The international journal of biochemistry & cell biology**, Vol. 44, Issue 6, pp. 886-95, (2012) (PubMed).

Publications

Yang, Zheng, Xia, Ji, Chen, Guo, Lyssiotis, Aldape, Cantley, Lu: "ERK1/2-dependent phosphorylation and nuclear translocation of PKM2 promotes the Warburg effect." in: **Nature cell biology**, Vol. 14, Issue 12, pp. 1295-304, (2012) (PubMed).

Images

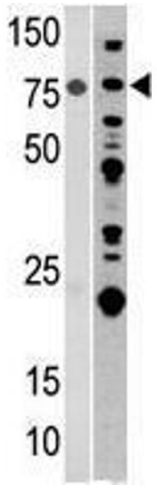

Image 1.

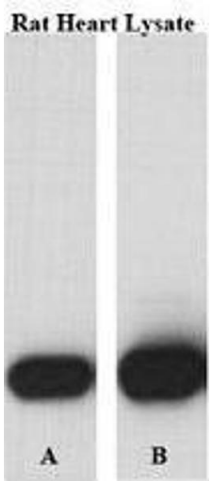

Image 2.