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### anti-ACO2 antibody (AA 294-325)

3 Images



Publication



Go to Product page

Overview	
Quantity:	400 μL
Target:	ACO2
Binding Specificity:	AA 294-325
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACO2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Immunogen:	This ACO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic
	peptide between 294-325 amino acids from the Central region of human ACO2.
Clone:	RB14646
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation 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. 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.
Molecular Weight:	85425
Gene ID:	50
NCBI Accession:	NP_001089
UniProt:	Q99798

#### **Application Details**

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

#### Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in 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.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

#### **Publications**

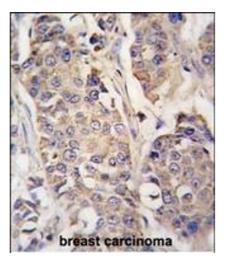
Product cited in:

Lin, Liu, Sun, Yuan, Zhang, Chen: "Establishment and characterization of a tamoxifen-mediated reversible immortalized mouse dental papilla cell line." in: **In vitro cellular & developmental biology. Animal**, Vol. 49, Issue 2, pp. 114-21, (2013) (PubMed).

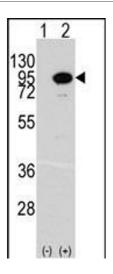
Kaushik, Arias, Kwon, Lopez, Athonvarangkul, Sahu, Schwartz, Pessin, Singh: "Loss of autophagy in hypothalamic POMC neurons impairs lipolysis." in: **EMBO reports**, Vol. 13, Issue 3,

pp. 258-65, (2012) (PubMed).

#### **Images**



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#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with ACO2 antibody (Center) (ABIN391809 and ABIN2841660), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.

#### **Western Blotting**

Image 2. All lanes: Anti-ACO2 Antibody (Center) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 85 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

#### **Western Blotting**

**Image 3.** Western blot analysis of ACO2 (arrow) using rabbit polyclonal ACO2 Antibody (Center) (ABIN391809 and ABIN2841660). 293 cell lysates (2  $\mu$ g/lane) either nontransfected (Lane 1) or transiently transfected with the ACO2 gene (Lane 2) (Origene Technologies).