

# Product datasheet for AP11745PU-N

# Aconitase 2 (ACO2) Rabbit Polyclonal Antibody

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blot: 1/100-1/500. Immunohistochemistry on Paraffin Sections: 1/10-1/50.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
lsotype:	lg
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 438-467 amino acids from the central region of Human Aconitase.
Specificity:	This antibody detects ACO2 at Center.
Formulation:	PBS State: Purified State: Liquid purified lg fraction Preservative: 0.09% (W/V) Sodium Azide
Concentration:	lot specific
Purification:	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	85425 Da
Gene Name:	aconitase 2
Database Link:	<u>Entrez Gene 50 Human</u> <u>Q99798</u>



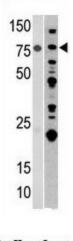
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#### **GRIGENE** Aconitase 2 (ACO2) Rabbit Polyclonal Antibody – AP11745PU-N

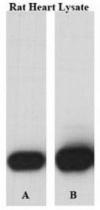
Background:ACO2 belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the<br/>interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle.<br/>This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be<br/>one of the mitochondrial matrix proteins that are preferentially degraded by the serine<br/>protease 15(PRSS15), also known as Lon protease, after oxidative modification.

Synonyms: Aconitase 2

### **Product images:**



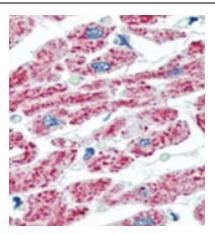
Western blot analysis of anti-ACO2 in mouse heart (left) and 293 (right) tissue lysates (35 ug/lane). ACO2 (arrow) was detected using the purified Pab (1:60 dilution).



Perfused isolated rat heart whole tissue lysate was lysed with either A) 50 mM Tris-HCl, 150 mM NaCl, 1mM EDTA, 1% NP-40, 0.1% SDS, 0.5% Nadeoxycholate, 1 mM Na3VO4, 20 mM NaF, 1 mM PMSF, 5 v/v % protease inhibitor cocktail or B) T-PER Tissue Protein Extraction Reagent, containing 1mM Na3VO4, 20 mM NaF, 5 v/v % protease inhibitor cocktail; PVDF membrane was incubated in primary Ab [rabbit polyclonal antibody against ACO2 (Center). Solution: 1:1000 diluted in 5% NFM TBS-T 0.05 for overnight (15 hrs) at 4°C. Data courtesy of Boglarka Laczy M.D., Division of Cardiovascular Disease, Dept. of Medicine, University of Alabama at Birmingham.

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Formalin-fixed and paraffin-embedded human Heart tissue reacted with ACO2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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