

## Aconitase 2 Antibody (F47297)

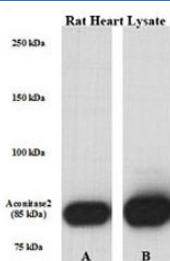
Catalog No.	Formulation	Size
F47297-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F47297-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

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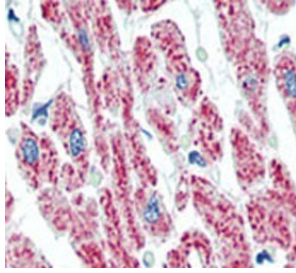
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Predicted Reactivity</b>	Bovine, Pig
<b>Format</b>	Purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Purified
<b>UniProt</b>	Q99798
<b>Localization</b>	Cytoplasmic, granular
<b>Applications</b>	Western Blot : 1:500-1000 IHC (Paraffin) : 1:10-1:50
<b>Limitations</b>	This Aconitase 2 antibody is available for research use only.

250  
130  
95  
72  
55

Western blot testing of human 293 cell lysate with Aconitase 2 antibody at 1:1000. Predicted molecular weight ~85 kDa.



Western blot testing of Aconitase 2 antibody (1:1000) and rat heart cell lysate. Predicted molecular weight ~85 kDa.



IHC analysis of FFPE human heart tissue stained with Aconitase 2 antibody.

## Description

ACO2/Aconitase 2 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.

## Application Notes

Titration of the Aconitase 2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 438-467 from the human protein was used as the immunogen for this Aconitase 2 antibody.

## Storage

Aliquot the Aconitase 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.