

## ACO1 Antibody

Catalog No: #37306

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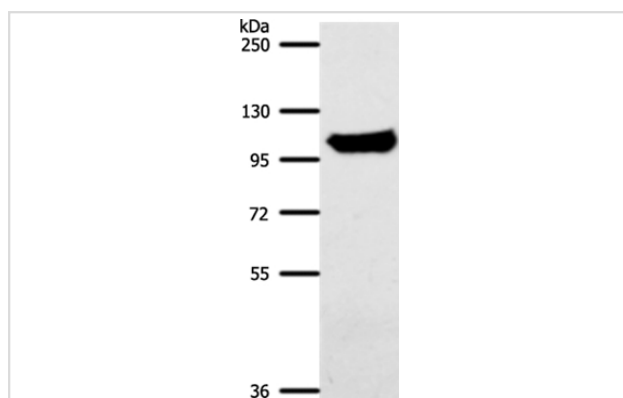
## Description

Product Name	ACO1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total ACO1 protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from internal residues of human aconitase 1, soluble
Target Name	ACO1
Other Names	IRP1; ACONS; IREB1; IREBP; IREBP1
Accession No.	Swiss-Prot#: P21399NCBI Gene ID: 48Gene Accssion: NP_002188
Uniprot	P21399
GeneID	48;
SDS-PAGE MW	98kd
Concentration	1.4mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: 1:1000-1:5000

## Images



Gel: 8%SDS-PAGE

Lysates (from left to right): Mouse liver tissue

Amount of lysate: 40ug per lane

Primary antibody: 1/700 dilution

Secondary antibody dilution: 1/8000

Exposure time: 10 seconds

## Background

Aconitase 1, also known as iron regulatory element binding protein 1 (IREB1), is a cytosolic protein which binds to iron-responsive elements (IREs). IREs are stem-loop structures found in the 5' UTR of ferritin mRNA, and in the 3' UTR of transferrin receptor mRNA. The iron-induced binding to the

IRE results in repression of translation of ferritin mRNA, and inhibition of degradation of the otherwise rapidly degrading transferrin receptor mRNA. Thus, IREB1 plays a central role in cellular iron homeostasis. It was also shown to have aconitase activity, and hence grouped with the aconitase family of enzymes.

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Note: This product is for in vitro research use only