

**Anti-Aconitase 1 ACO1 Rabbit Monoclonal Antibody**  
Catalog # ABO14061

**Specification**

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**Anti-Aconitase 1 ACO1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, ICC
Primary Accession	<a href="#">P21399</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Aconitase 1 ACO1 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

**Anti-Aconitase 1 ACO1 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 48

**Other Names**

Cytoplasmic aconitate hydratase, Aconitase, 4.2.1.3, Citrate hydro-lyase, Ferritin repressor protein, Iron regulatory protein 1, IRP1, Iron-responsive element-binding protein 1, IRE-BP 1, ACO1, IREB1

**Calculated MW**

98399 MW KDa

**Application Details**

WB 1:500-1:2000<br>ICC/IF 1:50-1:200

**Subcellular Localization**

Cytoplasm.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Aconitase 1

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## Anti-Aconitase 1 ACO1 Rabbit Monoclonal Antibody - Protein Information

**Name** ACO1

**Synonyms** IREB1

### Function

Bifunctional iron sensor that switches between 2 activities depending on iron availability (PubMed:<a href="http://www.uniprot.org/citations/1281544" target="\_blank">1281544</a>, PubMed:<a href="http://www.uniprot.org/citations/1946430" target="\_blank">1946430</a>, PubMed:<a href="http://www.uniprot.org/citations/8041788" target="\_blank">8041788</a>). Iron deprivation, promotes its mRNA binding activity through which it regulates the expression of genes involved in iron uptake, sequestration and utilization (PubMed:<a href="http://www.uniprot.org/citations/1281544" target="\_blank">1281544</a>, PubMed:<a href="http://www.uniprot.org/citations/1946430" target="\_blank">1946430</a>, PubMed:<a href="http://www.uniprot.org/citations/23891004" target="\_blank">23891004</a>, PubMed:<a href="http://www.uniprot.org/citations/8041788" target="\_blank">8041788</a>). Binds to iron-responsive elements (IRES) in the untranslated region of target mRNAs preventing for instance the translation of ferritin and aminolevulinic acid synthase and stabilizing the transferrin receptor mRNA (PubMed:<a href="http://www.uniprot.org/citations/1281544" target="\_blank">1281544</a>, PubMed:<a href="http://www.uniprot.org/citations/1946430" target="\_blank">1946430</a>, PubMed:<a href="http://www.uniprot.org/citations/23891004" target="\_blank">23891004</a>, PubMed:<a href="http://www.uniprot.org/citations/8041788" target="\_blank">8041788</a>).

### Cellular Location

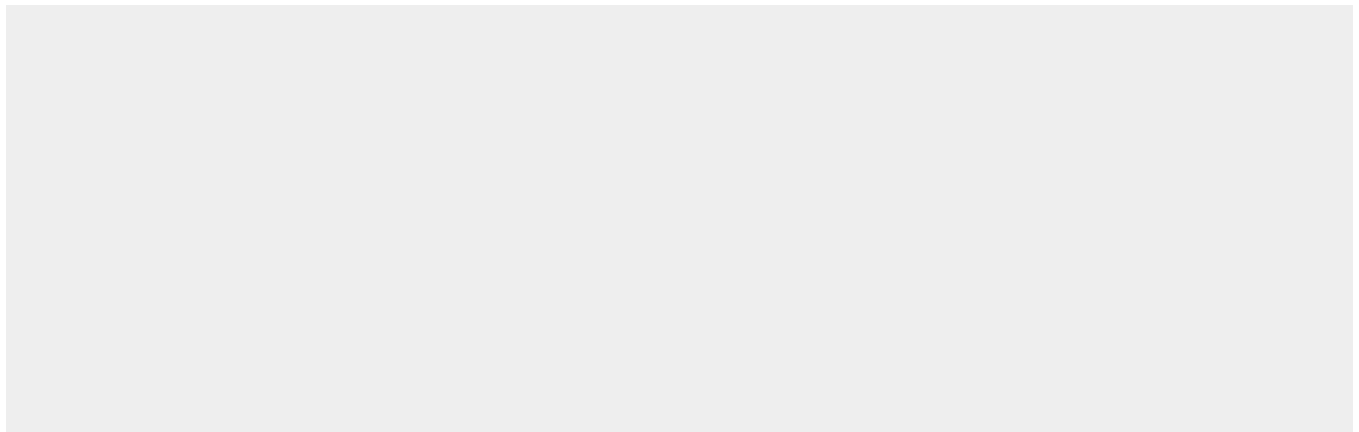
Cytoplasm, cytosol.

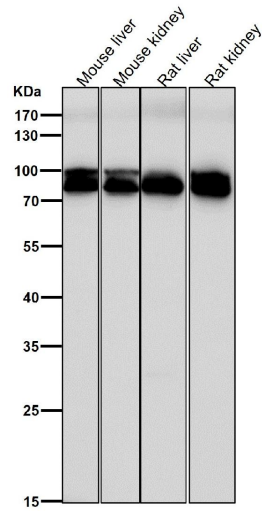
## Anti-Aconitase 1 ACO1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

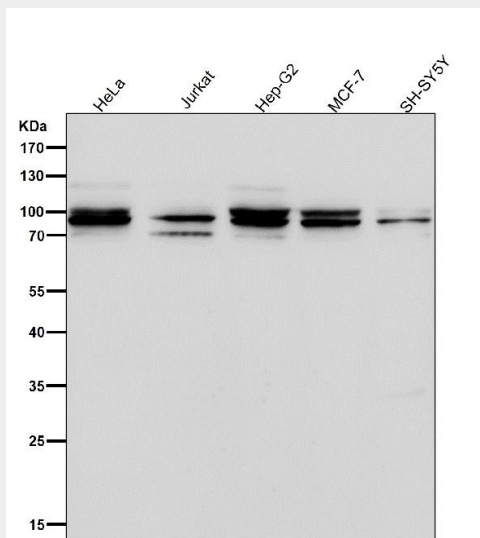
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Aconitase 1 ACO1 Rabbit Monoclonal Antibody - Images

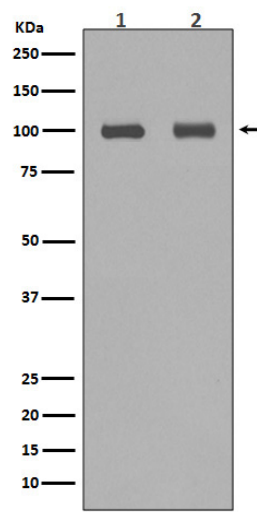




All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.



Western blot analysis of Aconitase 1 in (1) mouse kidney lysate; (2) HepG2 cell lysate.