

Product Name: Aconitase 1 (7U6) Rabbit Monoclonal Antibody
Catalog #: AMRe06511



Summary

Production Name	Aconitase 1 (7U6) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB, ICC/IF, FC
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type
Buffer	preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	ACO1
Alternative Names	ACO 1; Aconitase; Citrate hydro lyase; IREB1; IRP 1; Iron responsive element binding protein 1;
Gene ID	48.0
SwissProt ID	P21399.

Application

Dilution Ratio	WB 1:1000, ICC/IF 1:100-1:200, FCM 1:100
Molecular Weight	98kDa

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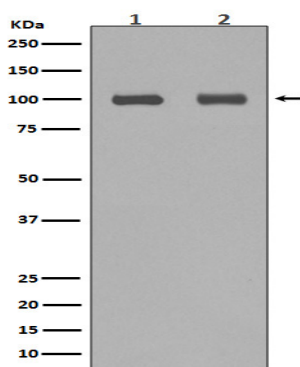


Background

Iron sensor. Binds a 4Fe-4S cluster and functions as aconitase when cellular iron levels are high. Bifunctional iron sensor that switches between 2 activities depending on iron availability (PubMed: [1946430](http://www.uniprot.org/citations/1946430), PubMed: [1281544](http://www.uniprot.org/citations/1281544), PubMed: [8041788](http://www.uniprot.org/citations/8041788)). Iron deprivation, promotes its mRNA binding activity through which it regulates the expression of genes involved in iron uptake, sequestration and utilization (PubMed: [1946430](http://www.uniprot.org/citations/1946430), PubMed: [1281544](http://www.uniprot.org/citations/1281544), PubMed: [8041788](http://www.uniprot.org/citations/8041788), PubMed: [23891004](http://www.uniprot.org/citations/23891004)). 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: [1946430](http://www.uniprot.org/citations/1946430), PubMed: [1281544](http://www.uniprot.org/citations/1281544), PubMed: [8041788](http://www.uniprot.org/citations/8041788), PubMed: [23891004](http://www.uniprot.org/citations/23891004)).

Research Area

Image Data



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

Note

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