## antibodies -online.com







## Aconitase 1 Protein (ACO1) (Myc-DYKDDDDK Tag)



## Image

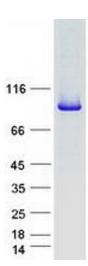


Overview
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Overview	
Quantity:	20 μg
Target:	Aconitase 1 (ACO1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aconitase 1 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)
Product Details	
Characteristics:	<ul> <li>Recombinant human ACO1 / IREB1 protein expressed in HEK293 cells.</li> <li>Produced with end-sequenced ORF clone</li> </ul>
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Target Details	
Target:	Aconitase 1 (ACO1)
Alternative Name:	Aco1,ireb1 (ACO1 Products)
Background:	The protein encoded by this gene is a bifunctional, cytosolic protein that functions as an
	essential enzyme in the TCA cycle and interacts with mRNA to control the levels of iron inside
	cells. When cellular iron levels are high, this protein binds to a 4Fe-4S cluster and functions as
	an aconitase. Aconitases are iron-sulfur proteins that function to catalyze the conversion of
	citrate to isocitrate. When cellular iron levels are low, the protein binds to iron-responsive

rarget Details	
	elements (IREs), which are stem-loop structures found in the 5' UTR of ferritin mRNA, and in the 3' UTR of transferrin receptor mRNA. When the protein binds to IRE, it results in repression of translation of ferritin mRNA, and inhibition of degradation of the otherwise rapidly degraded transferrin receptor mRNA. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Alternative splicing results in multiple transcript variants
Molecular Weight:	98.2 kDa
NCBI Accession:	NP_002188
Pathways:	Transition Metal Ion Homeostasis
Application Details	
Application Notes:	Recombinant human proteins can be used for:  Native antigens for optimized antibody production  Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only
Handling	
Concentration:	50 μg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze

immediately. Only 2-3 freeze thaw cycles are recommended.



## **Western Blotting**

Image 1. Validation with Western Blot