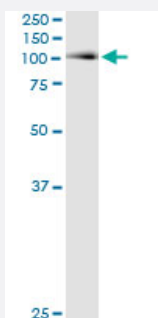


ACO1 (Human) IP-WB Antibody Pair

Catalog # H00000048-PW1

Size 1 Set

Applications



Immunoprecipitation of ACO1 transfected lysate using mouse monoclonal anti-ACO1 and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with rabbit polyclonal anti-ACO1.

Specification

Product Description	This IP-WB antibody pair set comes with one antibody for immunoprecipitation and another to detect the precipitated protein in western blot.
Reactivity	Human
Quality Control Testing	Immunoprecipitation-Western Blot (IP-WB) Immunoprecipitation of ACO1 transfected lysate using mouse monoclonal anti-ACO1 and Protein A Magnetic Bead (U0007), and immunoblotted with rabbit polyclonal anti-ACO1.
Supplied Product	Antibody pair set content: 1. Antibody pair for IP: mouse monoclonal anti-ACO1 (300 ug) 2. Antibody pair for WB: rabbit polyclonal anti-ACO1 (50 ul)
Storage Instruction	Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- Immunoprecipitation-Western Blot

[Protocol Download](#)

Gene Info — ACO1

Entrez GeneID [48](#)

Gene Name ACO1

Gene Alias ACONS, IREB1, IREBP, IREBP1, IRP1

Gene Description aconitase 1, soluble

Omim ID [100880](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations OTTHUMP00000021176|OTTHUMP00000021177|OTTHUMP00000045233|aconitase 1|aconitase hydratase|citrate hydro-lyase|ferritin repressor protein|iron regulatory protein 1|iron-responsive element binding protein 1

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glyoxylate and dicarboxylate metabolism](#)
- [Metabolic pathways](#)
- [Reductive carboxylate cycle \(CO2 fixation\)](#)