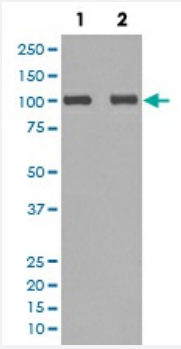
ACO1 monoclonal antibody, clone ABG-1

Catalog # MAB19520 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of (1) mouse kidney lysate; (2) HepG2 cell lysate with ACO1 monoclonal antibody.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human ACO1.
Immunogen	A synthetic peptide corresponding to human ACO1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of (1) mouse kidney lysate; (2) HepG2 cell lysate with ACO1 monoclonal antibody.

- Immunocytochemistry

- Immunofluorescence

Gene Info — ACO1

Entrez GeneID	48
Protein Accession#	P21399
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 protei n which binds to iron-responsive elements (IREs). IREs are stem-loop structures found in the 5' UT R of ferritin mRNA, and in the 3' UTR of transferrin receptor mRNA. The iron-induced binding to th e IRE results in repression of translation of ferritin mRNA, and inhibition of degradation of the othe rwise rapidly degrading transferrin receptor mRNA. Thus, IREB1 plays a central role in cellular iro n homeostasis. It was also shown to have aconitase activity, and hence grouped with the aconitas e family of enzymes. [provided by RefSeq
Other Designations	OTTHUMP00000021176|OTTHUMP00000021177|OTTHUMP00000045233|aconitase 1|aconita te 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)