

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
lsotype	lgG
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.



Product Information

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

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- Immunocytochemistry
- Immunofluorescence

Gene Info — ACO1

Entrez GenelD	<u>48</u>
Protein Accession#	<u>P21399</u>
Gene Name	ACO1
Gene Alias	ACONS, IREB1, IREBP, IREBP1, IRP1
Gene Description	aconitase 1, soluble
Omim ID	<u>100880</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	Aconitase 1, also known as iron regulatory element binding protein 1 (IREB1), is a cytosolic protein 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 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 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
- <u>Citrate cycle (TCA cycle)</u>
- <u>Glyoxylate and dicarboxylate metabolism</u>
- <u>Metabolic pathways</u>
- <u>Reductive carboxylate cycle (CO2 fixation)</u>