

ACO1 polyclonal antibody

Catalog # PAB18708 Size 100 ug

Applications



Western Blot (Tissue lysate)

ACO1 polyclonal antibody (Cat # PAB18708) (0.1 ug/mL) staining of human liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification	
Product Description	Goat polyclonal antibody raised against synthetic peptide of ACO1.
Immunogen	A synthetic peptide corresponding to amino acids at internal region of human ACO1.
Sequence	C-QVDFNRRADSLQKNQ
Host	Goat
Theoretical MW (kDa)	100
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:8000) Western Blot (0.1-0.3 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)

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Product Information

Storage Instruction

Aliquot to avoid repeated freezing and thawing.

Store at -20°C.

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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• Enzyme-linked Immunoabsorbent Assay

Gene Info — ACO1

Entrez GenelD	<u>48</u>
Protein Accession#	<u>NP_002188.1</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

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- 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>
- Glyoxylate and dicarboxylate metabolism
- <u>Metabolic pathways</u>
- Reductive carboxylate cycle (CO2 fixation)