

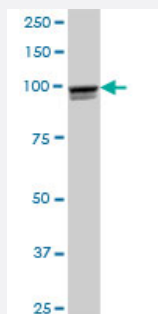
MaxPab®

ACO1 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00000048-B01P

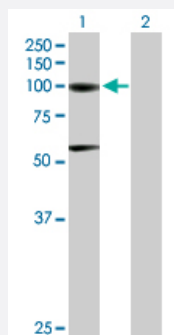
Size 50 ug

Applications



Western Blot (Tissue lysate)

ACO1 MaxPab polyclonal antibody. Western Blot analysis of ACO1 expression in human liver.



Western Blot (Transfected lysate)

Western Blot analysis of ACO1 expression in transfected 293T cell line ([H00000048-T01](#)) by ACO1 MaxPab polyclonal antibody.

Lane 1: ACO1 transfected lysate(97.79 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human ACO1 protein.

Immunogen

ACO1 (NP_002188.1, 1 a.a. ~ 889 a.a) full-length human protein.

Sequence

MSNPFAHLAEPLDPVQPGKKFFNLNKLEDSRYGRLPFSIRVLLEAAIRNCDEFLVKKQDIENILHW
NVTQHKNIEVPFKPARVILQDFTGVPVAVVDFAAMRDAVKKLGGDPEKINPVCADLVIDHSIQVDF
NRRADSLQKNQDLEFERNRERFEFLKWGSQAFHNMRIIPGSGIIHQVNLEYLARVVFDQDGYYP
DSLVGTDSTHTMIDGLGILGWGVGGIEAEAVMLGQPISMVLPQVIGYRLMGKPHPLVTSTDIVLTITK
HLRQVGVGKFEFFGPGVAQLSIADRATIANMCPEYGATAAFFPVDEVSTYLVQTGRDEEKLKY
IKKYLQAVGMFRDFNDPSQDPDFTQVVELDLKTVPCCSGPKRPQDKVAVSDMKKDFESCLGA
KQGFKGQVAPEHHNDHKTFYDNTEFTLAHGSVVIAAITSCTNTSNPSVMLGAGLLAKKAVDAGL
NVMPYIKTSLSPGSGVVTYLQESGVMPYLSQLGFDVVGYGCMTICIGNSGPLPEPVVEAITQGDL
VAVGVLSGNRNFEGRVHPNTRANYLASPPLVIAYAIAGTIRIDFEKEPLGVNAKGQQVFLKDWPTR
DEIQAVERQYVIPGMFKEVYQKIETVNESWNALATPSDKLFFWNSKSTYIKSPFFENLTDLQPP
KSIVDAYVLLNLGDSVTTDHISPAGNIARNSPAARYLTNRGLTPREFNSYGSRRGNDVAMARGTFA
NIRLLNRFNLKQAPQTIHLPSGEILDVFDAAERYQQAGLPLMLAGKEYGAGSSRDWAAKGPFLGI
KAVLAESYERIHRSNLVGMGVIPLEYLPGENADALGLTGQERYTIIPENLKPQMKVQVKLDTGKTF
QAVMRFDTDVELTYFLNGGILNYMIRKMAK

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence

Mouse (93)

Quality Control Testing

Antibody reactive against mammalian transfected lysate.

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

• Western Blot (Tissue lysate)

ACO1 MaxPab polyclonal antibody. Western Blot analysis of ACO1 expression in human liver.

[Protocol Download](#)

• Western Blot (Transfected lysate)

Western Blot analysis of ACO1 expression in transfected 293T cell line ([H00000048-T01](#)) by ACO1 MaxPab polyclonal antibody.

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[Protocol Download](#)

Gene Info — ACO1

Entrez GeneID	48
GeneBank Accession#	NM_002197.1
Protein Accession#	NP_002188.1
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 \(CO₂ fixation\)](#)