

DNAxPAb

Hard-to-Find
Antibody

ACO1 DNAxPab

Catalog # H00000048-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human ACO1 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MSNPFAHLAEPLDPVQPGKKFFNLNKLEDSRYGRLPFSIRVLLEAAIRNCDEFLVKKQDIENILHW NVTQHKNIEVPFKPARVILQDFTGVPVVDFAAMRDAVKKLGGDPEKINPVCADLVIDHSIQVDF NRRADSLQKNQDLEFERNRERFEFLKWGSQAFHNMRIIPGSGIIHQVNLEYLARVVFDQDGYYP DSLVTGDSHTTMIDGLGILGWGVGGIEAEAVMLGQPISMVLPQVIGYRLMGKPHPLVTSTDIVLTITK HLRQVGVGKFEFFGPGVAQLSIADRATIANMCPEYGATAAFFPVDEVSTYLVQTGRDEEKLKY IKKYLQAVGMFRDFNDPSQDPDFTQVVELDLKTVVPCCSGPKRPQDKVAVSDMKKDFESCLGA KQGFKGFQVAPEHHNDHKTFIYDNTEFTLAHGSVVIAITSCNTSNPSVMLGAGLLAKKAVDAGL NVMPYIKTSLSPGSGVVTYLQESGVMPYLSQLGFDVVGYGCMTCIGNSGPLPEPVVEAITQGDL VAVGVLSGNRNFEGRVHPNTRANYLASPPLVIAYAIAGTIRIDFEKEPLGVNAKGQQVFLKDMPTR DEIQAVERQYVIPGMFKEVYQKIETVNESWNALATPSDKLFFWNSKSTYIKSPFFENLTDLQPP KSIVDAYVLLNLGDSVTTDHISPAGNIARNSPAARYLTNRGLTPREFNSYGSRRGNDAVMARGTFA NIRLLNRFNLKQAPQTIHLPSGEILDVFDAERYQQAGLPLMLAGKEYGAGSSRDWAAKGPFLGLI KAVLAESYERIHRSNLVGMGVIPLEYLPGENADALGLTGQERYTIIPENLKPQMKVQVKLDTGKTF QAVMRFDTDVELTYFLNGGILNYMIRKMAK
Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (93)
Purification	Protein A
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 (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

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 \(CO₂ fixation\)](#)