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# Datasheet

## ACO1 purified MaxPab mouse polyclonal antibody (B01P)

**Catalog Number:** H00000048-B01P

**Regulation Status:** For research use only (RUO)

**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:**
MSNPFAHLAEPLDPVQPGKKFFNLNKLEDSRYGRLPF
SIRVLLEAAIRNCDEFLVKKQDIENILHWNVTQHKNIEV
PFKPARVILQDFTGVPAVVDFAAMRDAVKKLGGDPEKI
NPVCPADLVIDHSIQVDFNRRADSLQKNQDLEFERNR
ERFEFLKWGSQAFHNMRIIPPGSGIIHQVNLEYLARVV
FDQDGYYYPDSLVGTDSHTTMIDGLGILGWGVGGIEA
EAVMLGQPISMVLPQVIGYRLMGKPHPLVTSTDIVLTIT
KHLRQVGVVGKFVEFFGPGVAQLSIADRATIANMCPE
YGATAAFFPVDEVSITYLVQTGRDEEKLKYIKKYLQAV
GMFRDFNDPSQDPDFTQVVELDLKTVVPCCSGPKRP
QDKVAVSDMKKDFESCLGAKQGFKGFQVAPEHHNDH
KTFIYDNTEFTLAHGSVVIAAITSCTNTSNPSVMLGAGL
LAKKAVDAGLNVMPYIKTSLSPGSGVVTYYLQESGVM
PYLSQLGFDVVGYGCMTCIGNSGPLPEPVVEAITQGD
LVAVGVLSGNRNFEGRVHPNTRANYLASPPLVIAYAIA
GTIRIDFEKEPLGVNAKGQQVFLKDIWPTRDEIQAVER
QYVIPGMFKEVYQKIETVNESWNALATPSDKLFFWNS
KSTYIKSPPFFENLTLDLQPPKSIVDAYVLLNLGDSVTT
DHISPAGNIARNSPAARYLTNRGLTPREFNSYGSRRG
NDAVMARGTFANIRLLNRFLNKQAPQTIHLPSGEILDVF
DAAERYQQAGLPLIVLAGKEYGAGSSRDWAAKGPFLL
GIKAVLAESYERIHRSNLVGMGVIPLEYLPGENADALG
LTGQERYTIIIPENLKPQMKVQVKLDTGKTFQAVMRFD
TDVELTYFLNGGILNYMIRKMAK

**Host:** Mouse

**Reactivity:** Human

**Applications:** WB-Ti, WB-Tr
(See our web site product page for detailed applications information)

**Protocols:** See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

**Storage Buffer:** In 1x PBS, pH 7.4

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

**Entrez GeneID:** 48

**Gene Symbol:** ACO1

**Gene Alias:** ACONS, IREB1, IREBP, IREBP1, IRP1

**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]