

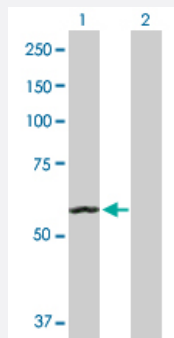
MaxPab®

ACO2 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00000050-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of ACO2 expression in transfected 293T cell line ([H00000050-T02](#)) by ACO2 MaxPab polyclonal antibody.

Lane 1: ACO2 transfected lysate(85.40 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human ACO2 protein.

Immunogen

ACO2 (NP_001089.1, 1 a.a. ~ 780 a.a) full-length human protein.

Sequence

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYHYDLLEKNINVRKRLNRPLTLSE
KIVYGHLDPPASQEIERGKSYLRPDRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLIEAQ
VGGEKDLRRAKDINQEVNFLATAGAKYGVGFWKPGSGIIHQIILENYAPGVLLIGTDSHTPNGGG
LGGICIGVGGADAVDVMAGIPWELKCPKVIGVCLTGSLSGWSSPKDVILKVAGILTVKGGTGAVEY
HGPVDSISCTGMATICNMGAIEGATTSVFPYNHRMCKYLSKTGREDIANLADEFKDLHVPDPCG
HYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAA
VAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGMLANACGPCIGQWDRKDIKKGEK
NTIVTSYNRFTGRNDANPETHAFVTSPEIVTALAIAAGTLKFNPETDYLTGTDGKKFRLEAPDADEL
PKGEFDPGQDQTYQHPPKDSSGQHVDVSPTSQRLQLLEPFDKWDGKDLEDLQILIKVKGKCTTDHI
SAAGPWLFKFRGHLDNISNNLLIGAINIENGKANSVRNAVTFQEGFVPDRTARYKKHGIRWVIGDEN
YGESSREHAALPRHLGGRAITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDF
TPGKPLKCIKHPNGTQETILLNHTFNETQIEWFRAGSALNRMKELQQ

Host

Rabbit

Reactivity

Human

Interspecies Antigen Sequence	Mouse (97); Rat (96)
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.

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[Protocol Download](#)

Gene Info — ACO2

Entrez GeneID	50
GeneBank Accession#	NM_001098.2
Protein Accession#	NP_001089.1
Gene Name	ACO2
Gene Alias	ACONM, MGC20605, MGC33908
Gene Description	aconitase 2, mitochondrial
Omim ID	100850
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15(PRSS15), also known as Lon protease, after oxidative modification. [provided by RefSeq]
Other Designations	OTTHUMP00000042146 OTTHUMP00000165920 aconitase 2 aconitate hydratase citrate hydro-lyase

Publication Reference

- [Mitophagy in human astrocytes treated with the antiretroviral drug Efavirenz: Lack of evidence or evidence of the lack.](#)

Martinez-Arroyo O, Gruevska A, Victor VM, Gonzalez-Polo RA, Yakhine-Diop S, Fuentes JM, Esplugues JV, Blas-Garcia A, Apostolova N.

Antiviral Research 2019 May; 168:36.

Application: WB, Human, U251-MG cells

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 \(CO₂ fixation\)](#)