

DNAxPAb

Hard-to-Find
Antibody

ACO2 DNAxPab

Catalog # H00000050-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human ACO2 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYHYDLLEKNINVRKRLNRPLTLSE KIVYGHLDPPASQEIERGKSYLRPDRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLIEAQ VGGEKDLRRAKDINQEVYNFLATAGAKYGVGFWKPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGG LGGICIGVGGADAVDVMAGIPWELKCPKVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAVEY HGPVDSISCTGMATICNMGAIEGATTSVFPYNHRMKKYLSKTGREDIANLADEFKDHLVPDPGC HYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAA VAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGMLANACGPCIGQWDRKDIKKGEK NTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAAGTLKFNPETDYL TGTGDKKFRLEAPDADEL PKGFDPPGQD TYQHPPKDSSGQHVDVSPTSQRLQLLEPFDKWDGKDLEDLQILKVKGKCTTDHI SAAGPWLKFRGHLDNISNLLIGAINIENGKANSVRNAV TQEFGPVPDTARYYKKHGIRWVIGDEN YGEGSSREHAAL EPRHLGGRAITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDF TPGKPLKCIKH PNGTQETILLNHTFNETQIEWFRAGSALNRMKELQQ
Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (96)
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 — 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

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 \(CO₂ fixation\)](#)