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Diagnostik & molekulare Diagnostik



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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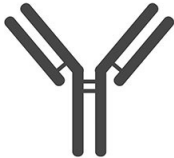
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Product Number	ARP56301_P050-Biotin
Product Page	www.avivasysbio.com/aco2-antibody-n-terminal-region-biotin-arp56301-p050-biotin.html
Name	ACO2 Antibody - N-terminal region : Biotin (ARP56301_P050-Biotin)
Protein Size (# AA)	780 amino acids
Molecular Weight	82kDa
Conjugation	Biotin
NCBI Gene Id	50
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Aconitase 2, mitochondrial
Alias Symbols	ICRD, OCA8, OPA9, ACONM, HEL-S-284
Peptide Sequence	Synthetic peptide located within the following region: LQFISSGLSKVAVPSTIHCDHLIEAQVGGKDLRRAKDINQEVYNFLATA
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Reference	Yu,Z., (2006) Prostate 66 (10), 1061-1069
Description of Target	ACO2 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. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Protein Interactions	SUMO2; UBC; SUMO1; NEDD8; MDM2; ASB9; VCAM1; ITGA4; AK3; SIN3A; ACAA2; APP; ACAT1; ATXN1L; SUMO4; PSMD4; SRRM2;
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-ACO2 (ARP56301_P050-Biotin) antibody
Blocking Peptide	For anti-ACO2 (ARP56301_P050-Biotin) antibody is Catalog # AAP56301 (Previous Catalog # AAPP34417)
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human ACO2
Uniprot ID	Q99798
Protein Name	Aconitate hydratase, mitochondrial
Publications	<p>Freund, D. M., Prenni, J. E. & Curthoys, N. P. Response of the mitochondrial proteome of rat renal proximal convoluted tubules to chronic metabolic acidosis. <i>Am. J. Physiol. Renal Physiol.</i> 304, F145-55 (2013). WB, Human, Dog, Pig, Horse, Rabbit, Rat, Guinea pig, Bovine, Mouse, Yeast 23136003</p> <p>Schauer, K. L., Freund, D. M., Prenni, J. E. & Curthoys, N. P. Proteomic profiling and pathway analysis of the response of rat renal proximal convoluted tubules to metabolic acidosis. <i>Am. J. Physiol. Renal Physiol.</i> 305, F628-40 (2013). WB, Human, Dog, Pig, Horse, Rabbit, Rat, Guinea pig, Bovine, Mouse, Yeast 23804448</p>

Sample Type Confirmation	ACO2 is strongly supported by BioGPS gene expression data to be expressed in 721_B
Protein Accession #	NP_001089
Purification	Affinity Purified
Nucleotide Accession #	NM_001098
Gene Symbol	ACO2
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Yeast
Application	WB
Predicted Homology Based on Immunogen Sequence	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Yeast: 86%
Image 1	

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Optimal conditions of its use should be determined by end users.

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