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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Number	ARP56302_P050-Biotin
Product Page	www.avivasysbio.com/aco2-antibody-c-terminal-region-biotin-arp56302-p050-biotin.html
Name	ACO2 Antibody - C-terminal region : Biotin (ARP56302_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: RYYKKHGIRWVYVIGDENYGEQSSREHAALPRHLGGRAITKSFARIHET
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
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.
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 (ARP56302_P050-Biotin) antibody
Blocking Peptide	For anti-ACO2 (ARP56302_P050-Biotin) antibody is Catalog # AAP56302 (Previous Catalog # AAPP34418)
Immunogen	The immunogen is a synthetic peptide directed towards the C terminal region of human ACO2
Uniprot ID	Q99798
Protein Name	Aconitate hydratase, mitochondrial
Publications	Scheving, R. et al. Protein S-nitrosylation and denitrosylation in the mouse spinal cord upon injury of the sciatic nerve. J. Proteomics 75, 3987-4004 (2012). WB, Human, Bovine, Pig, Yeast, Rat 22588120
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, Rat, Cow, Pig, Yeast
Application	IHC, WB

Predicted Homology Based on Immunogen Sequence	Cow: 100%; Human: 100%; Pig: 100%; Rat: 100%; Yeast: 100%
Image 1	 A schematic diagram of an antibody molecule, represented as a Y-shape. It consists of two heavy chains (the inner vertical lines) and two light chains (the outer diagonal lines), all connected at their base. The two arms of the Y extend upwards and outwards, representing the antigen-binding sites.

AVIVA SYSTEMS BIOLOGY manufactures and sells quality antibody products covering genome wide proteins.

This product is for Research Use Only. Not for diagnostic, human, or veterinary use.

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

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