

Mouse ACO2 Monoclonal Antibody | anti-ACO2 antibody

ACO2 antibody

CATALOG # AAA106504	HOST Mouse	APPLICATIONS Western Blot, Immunohistochemistry, Immunofluorescence
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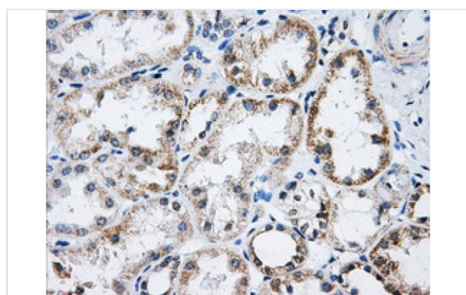
PRODUCT SYNONYMS

ACO2; Monoclonal Antibody; ACO2 antibody; Monoclonal ACO2; Anti-ACO2; Aconitase 2 Mitochondrial; ACONM; MGC20605; MGC33908; ACO 2; ACO-2; anti-ACO2 antibody

PRODUCT SPECIFICATIONS

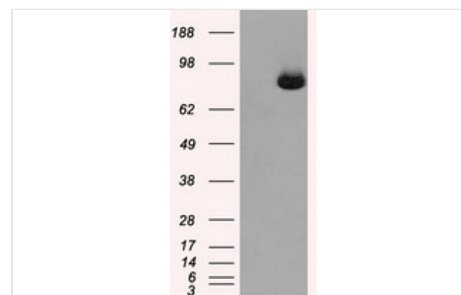
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3G8
Purity/Purification	ACO2 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	780
Applicable Applications for anti-ACO2 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Biological Significance	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.
Cross-Reactivity	Human
Immunogen	ACO2 antibody was raised in mouse using a full length recombinant protein of human ACO2 (NP_001089) produced in HEK293T cells, as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemical analysis of ACO2 protein in paraffin embedded Human kidney tissue using ACO2 antibody



WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant ACO2 protein (Right) or empty vector (Left) detected with ACO2 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-ACO2 antibody	Mouse monoclonal ACO2 antibody
Product Categories/Family for anti-ACO2 antibody	Proteases ; Inhibitors ; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501867
NCBI GeneID	50
NCBI Accession #	NP_001089
NCBI GenBank Nucleotide #	NM_001098.2
UniProt Accession #	Q99798 ; O75809 ; Q5JZ41 ; Q6FHX0 ; Q8TAQ6
Molecular Weight	85,425 Da
NCBI Official Full Name	aconitate hydratase, mitochondrial
NCBI Official Synonym Full Names	aconitase 2, mitochondrial
NCBI Official Symbol	ACO2
NCBI Official Synonym Symbols	ICRD; OCA8; ACONM
NCBI Protein Information	aconitate hydratase, mitochondrial
UniProt Protein Name	Aconitate hydratase, mitochondrial
UniProt Gene Name	ACO2
UniProt Synonym Gene Names	Aconitase
UniProt Entry Name	ACON_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/aco2-antibody-clone-3g8-western-blot-immunohistochemistry-immunofluorescence-elisa/106504>