

Rabbit ACO1 Polyclonal Antibody | anti-ACO1 antibody

ACO1 antibody - N-terminal region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23476	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat	Immunohistochemistry, Western Blot

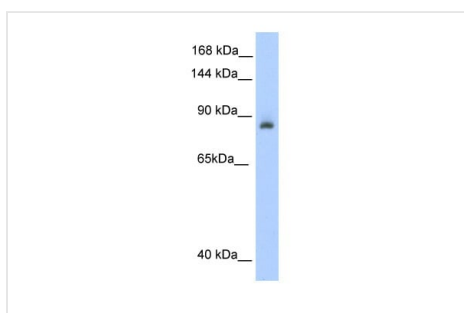
PRODUCT SYNONYMS

ACO1; Polyclonal Antibody; ACO1 antibody - N-terminal region; anti-ACO1 antibody

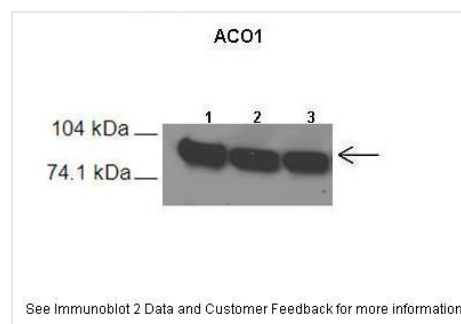
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: MS NPFAHLAEPL DPVQPGKKFF NLNKLEDSRY GRLPFSIRVL LEAAIRNC
Sequence Length	889
Applicable Applications for anti-ACO1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Homology	Cow: 100%; Dog: 93%; Guinea Pig: 91%; Horse: 92%; Human: 100%; Mouse: 93%; Pig: 100%; Rabbit: 86%; Rat: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human ACO1
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

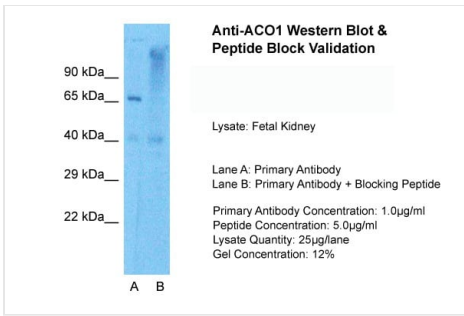
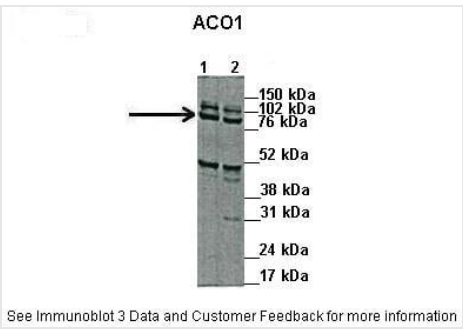


WB (Western Blot)

WB Suggested Anti-ACO1 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:62500
Positive Control: Human kidney


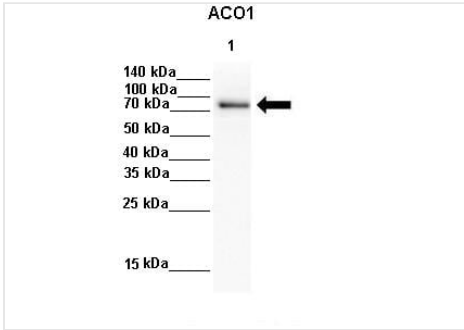
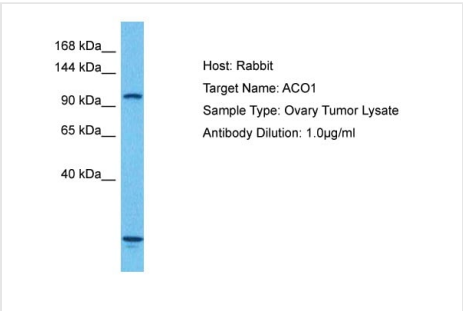
WB (Western Blot)

Lanes: 1. 60 ug mouse liver extract 2. 60 ug mouse liver extract 3. 60 ug mouse liver extract
Primary Antibody Dilution: 1:500
Secondary Antibody: Anti-rabbit HRP
Secondary Antibody Dilution: 1:3000
Gene Name: ACO1
Submitted by: Dr. Hao Zhu, University of Kansas Medical Center



WB (Western Blot)
Lanes:1. 45ug capan1 cell lysate2. 45 ug HPAF cell lysatePrimary Antibody
Dilution:1:1000Secondary Antibody:Anti-Rabbit HRPSecondary Antibody
Dilution:1:5000Gene Name:ACO1Submitted by:Dr. Pankaj Singh, UNMC, Omaha, NE

WB (Western Blot)
Host: RabbitTarget Name: ACO1Sample Type: Fetal KidneyLane A: Primary AntibodyLane B: Primary Antibody + Blocking PeptidePrimary Antibody Concentration: 1ug/mlPeptide Concentration: 5ug/mlLysate Quantity: 25ug/laneLaneGel Concentration: 0.12



WB (Western Blot)
Host: RabbitTarget Name: ACO1Sample Tissue: Human Ovary TumorAntibody Dilution: 1ug/ml

WB (Western Blot)
Sample Type: HePG2Lanes :Lane 1: 100ug HePG2 lysatePrimary Antibody Dilution :1:1000Secondary Antibody :Goat anti rabbit-HRPSecondary Antibody Dilution :1:8000Gene Name :ACO1Submitted by :JosÃ© Antonio BÃ¡rcena, University of CÃ³rdoba

ADDITIONAL INFORMATION

Related Product Information for anti-ACO1 antibody	This is a rabbit polyclonal antibody against ACO1. It was validated on Western Blot and immunohistochemistry Target Description: ACO1, also known as iron regulatory element binding protein 1 (IREB1), is a cytosolic protein which binds to iron-responsive elements (IREs). It plays a central role in cellular iron homeostasis. It was also shown to have aconitase activity, and hence grouped with the aconitase family of enzymes.Aconitase 1, also known as iron regulatory element binding protein 1 (IREB1), is a cytosolic protein which binds to iron-responsive elements (IREs). IREs are stem-loop structures found in the 5' UTR of ferritin mRNA, and in the 3' UTR of transferrin receptor mRNA. The iron-induced binding to the IRE results in repression of translation of ferritin mRNA, and inhibition of degradation of the otherwise rapidly degrading transferrin receptor mRNA. Thus, IREB1 plays a central role in cellular iron homeostasis. It was also shown to have aconitase activity, and hence grouped with the aconitase family of enzymes.
Product Categories/Family for anti-ACO1 antibody	Polyclonal; RNA Binding Proteins; Drugs and Drug Metabolism; DNA/RNA/Protein Interactions; Immunohistochemistry

NCBI AND UNIPROT INFORMATION

NCBI GI #	8659555
NCBI GeneID	48
NCBI Accession #	NP_002188
NCBI GenBank Nucleotide #	NM_002197
UniProt Accession #	P28271; P21399
Molecular Weight	98kDa
NCBI Official Full Name	cytoplasmic aconitate hydratase

NCBI Official Synonym Full Names	aconitase 1
NCBI Official Symbol	ACO1
NCBI Official Synonym Symbols	IRP1; ACONS; HEL60; IREB1; IREBP; IREBP1
NCBI Protein Information	cytoplasmic aconitate hydratase
UniProt Protein Name	Cytoplasmic aconitate hydratase
UniProt Gene Name	Aco1
UniProt Synonym Gene Names	Ireb1; Irebp; Aconitase; IRP1; IRE-BP 1
UniProt Entry Name	ACOC_MOUSE

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://www.aaabiotech.com/polyclonal/aco1-antibody-immunohistochemistry-western-blot-elisa/23476>