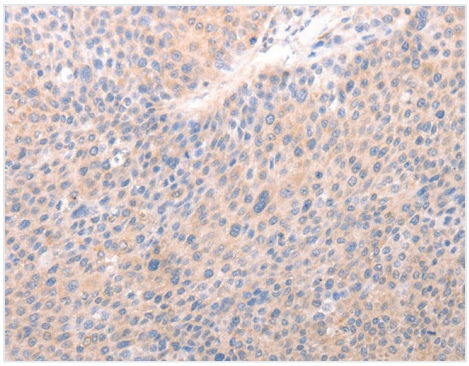
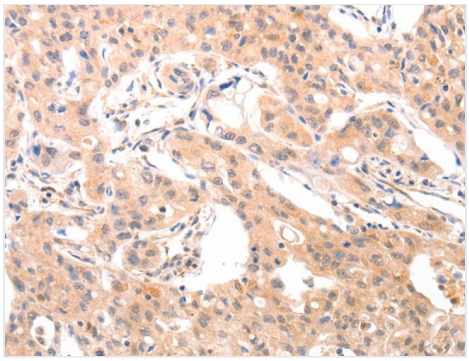
ACO1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACO1, Polyclonal Antibody
Full Product Name	ACO1 Polyclonal Antibody
Product Gene Name	anti-ACO1 antibody
Product Synonym Names	IRP1; ACONS; IREB1; IREBP; IREBP1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen affinity purification
Concentration	1.5mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	85,368 Da
Immunogen	Synthetic peptide of human ACO1
Buffer	PBS with 0.05% sodium azide, 50% glycerol, pH7.3
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACO1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-ACO1 antibody	IHC: 1:50-1:200
Related Product Information for anti-ACO1 antibody	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.
Other Notes	Small volumes of anti-ACO1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACO1 purchase	MBS2518750 is an antibody targeting ACO1. Also known as ACO1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-ACO1 antibody
Immunohistochemistry of paraffin-embedded Human liver cancer tissue using ACO1 Polyclonal Antibody at dilution 1:50



Immunohistochemistry (IHC) of anti-ACO1 antibody
Immunohistochemistry of paraffin-embedded Human lung cancer tissue using ACO1 Polyclonal Antibody at dilution 1:50

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACO1. It may not necessarily be applicable to this product.

NCBI GI #	6323335
NCBI GeneID	851013
NCBI Accession #	NP_013407.1
UniProt Secondary Accession #	D6VYU7
UniProt Related Accession #	P19414
GenBank Nucleotide #	NM_001182192.1
NCBI Official Full Name	aconitate hydratase ACO1
NCBI Official Symbol	ACO1
NCBI Official Synonym Symbols	GLU1
UniProt Protein Name	Aconitate hydratase, mitochondrial
UniProt Synonym Protein Names	Citrate hydro-lyase
Protein Family	1-aminocyclopropane-1-carboxylate oxidase
UniProt Gene Name	ACO1
UniProt Synonym Gene Names	GLU1; Aconitase
UniProt Entry Name	ACON_YEAST
NCBI Protein Information	aconitate hydratase ACO1
UniProt Comments for ACO1	Catalyzes the isomerization of citrate to isocitrate via cis-aconitate, a step in the citric acid cycle. Can also provide minor contributions to the reversible dehydration of (R)-homocitrate to cis-homoaconitate, a step in the alpha-aminoadipate pathway for lysine biosynthesis. Plays also an essential role in mtDNA maintenance. May directly protect mtDNA from accumulation of point mutations and ssDNA breaks as a component of mitochondrial nucleoids, or by preventing accumulation of iron citrate thereby alleviating its detrimental effects in mitochondria.
Research Articles on ACO1	**1.** Lack of the ACO1 gene results in increased zinc tolerance.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/aco1/2518750