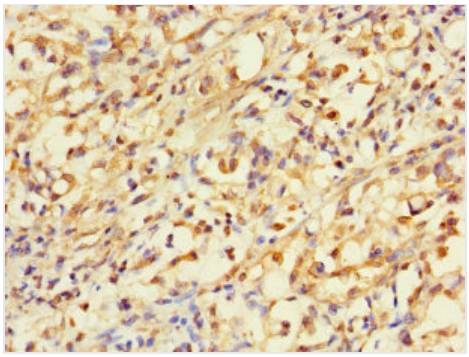
ACLY Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

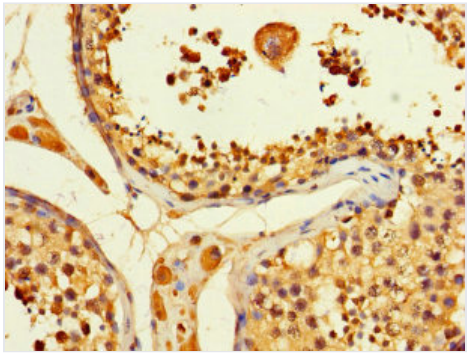
Product Name	ACLY, Polyclonal Antibody
Full Product Name	ACLY Antibody
Product Gene Name	anti-ACLY antibody
Product Synonym Names	ATP-citrate synthase; ATP-citrate (pro-S-)-lyase; ACL; Citrate cleavage enzyme; ACLY
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: ACLY (MBS7000947) FITC Conjugated Antibody: ACLY (MBS7000002)
Matching Pairs	Unconjugated Antibody: ACLY (MBS7000947) HRP Conjugated Antibody: ACLY (MBS7006016)
Matching Pairs	Unconjugated Antibody: ACLY (MBS7000947) Biotin Conjugated Antibody: ACLY (MBS7006784)
Molecular Weight	91,099 Da
OMIM	108728
3D Structure	ModBase 3D Structure for P53396
Immunogen	Recombinant human ATP-citrate synthase protein
Conjugation	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-30538 / sc-30537
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACLY antibody	ELISA (EIA), Immunofluorescence (IF), Immunohistochemistry (IHC)
Related Product Information for anti-ACLY antibody	ATP-citrate synthase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine.
Other Notes	Small volumes of anti-ACLY 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 ACLY purchase	MBS7000947 is an antibody targeting ACLY. Also known as ACLY Antibody. Reactive in Human. Host: Rabbit.



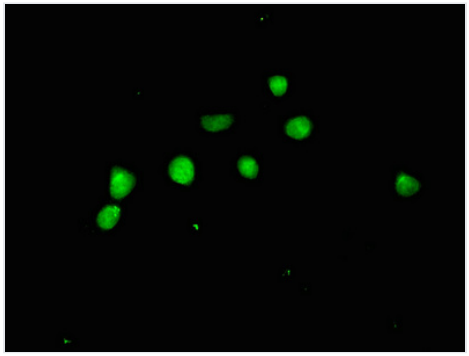
Immunohistochemistry (IHC) of anti-ACLY antibody
Immunohistochemistry of paraffin-embedded human breast cancer using MBS7000947 at dilution of 1:100



Immunohistochemistry (IHC) of anti-ACLY antibody
Immunohistochemistry of paraffin-embedded human gastric cancer using MBS7000947 at dilution of 1:100



Immunohistochemistry (IHC) of anti-ACLY antibody
Immunohistochemistry of paraffin-embedded human testis tissue using MBS7000947 at dilution of 1:100



Immunofluorescence (IF) of anti-ACLY antibody
Immunofluorescent analysis of HepG2 cells using MBS7000947 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

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

NCBI GI #	38569421
NCBI GeneID	47
NCBI Accession #	NP_001087.2
UniProt Primary Accession #	P53396
UniProt Secondary Accession #	Q13037; Q9BRL0; B4DIM0; B4E3P0
UniProt Related Accession #	P53396
GenBank Nucleotide #	NM_001096.2
NCBI Official Full Name	ATP-citrate synthase isoform 1
NCBI Official Synonym Full Names	ATP citrate lyase
NCBI Official Symbol	ACLY
NCBI Official Synonym Symbols	ACL; ATPCL; CLATP
UniProt Protein Name	ATP-citrate synthase
UniProt Synonym Protein Names	ATP-citrate (pro-S-)-lyase; ACL; Citrate cleavage enzyme
Protein Family	ATP-citrate synthase
UniProt Gene Name	ACLY
UniProt Synonym Gene Names	ACL

UniProt Entry Name	ACLY_HUMAN
NCBI Protein Information	ATP-citrate synthase
NCBI Summary for ACLY	ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer (relative molecular weight approximately 440,000) of apparently identical subunits. It catalyzes the formation of acetyl-CoA and oxaloacetate from citrate and CoA with a concomitant hydrolysis of ATP to ADP and phosphate. The product, acetyl-CoA, serves several important biosynthetic pathways, including lipogenesis and cholesterogenesis. In nervous tissue, ATP citrate-lyase may be involved in the biosynthesis of acetylcholine. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Dec 2014]
UniProt Comments for ACLY	ACLY: ATP citrate-lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine. Homotetramer. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Carbohydrate Metabolism - citrate (TCA) cycle; Transferase; EC 2.3.3.8; Lyase Chromosomal Location of Human Ortholog: 17q21.2 Cellular Component: cytoplasm; cytosol; membrane; mitochondrion; nucleoplasm; plasma membrane Molecular Function: ATP binding; ATP citrate synthase activity; cofactor binding; metal ion binding; protein binding Biological Process: acetyl-CoA biosynthetic process; cellular lipid metabolic process; cholesterol biosynthetic process; citrate metabolic process; energy reserve metabolic process; fatty acid biosynthetic process; lipid biosynthetic process; oxaloacetate metabolic process; positive regulation of cellular metabolic process; triacylglycerol biosynthetic process
Research Articles on ACLY	**1.** ACL activity is associated with increased ATP. Activation of this IGF1/ACL/cardiolipin pathway combines anabolic signaling with induction of mechanisms needed to provide required ATP.
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