

Rabbit anti-Human ATP citrate lyase/ACLY Polyclonal Antibody | anti-ACLY antibody

Anti-ATP citrate lyase/ACLY Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255468	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

ATP citrate lyase/ACLY; Polyclonal Antibody; Anti-ATP citrate lyase/ACLY Antibody; Rabbit Polyclonal; ACLY/ATP Antibody; Rabbit PAb; Antigen Affinity Purified; ATP citrate lyase; Anti-ACL Antibody; Anti-ATPCL Antibody; Anti-CLATP Antibody; anti-ACLY antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human ATP citrate lyase/ACLY
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-ACLY antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human ACLY/ATP Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human ACLY/ATP (rh ACLY/ATP). ACLY/ATP specific IgG was purified by Human ACLY/ATP affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-ACLY rabbit polyclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 120 kDa Observed band size: 120 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)

ACLY was immunoprecipitated using: Lane A: 0.5 mg Jurkat Whole Cell Lysate 2 uL anti-ACLY rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-ACLY rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 120 kDa Observed band size: 120 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-ACLY antibody	ATP citrate lyase, also known as Acly or Acl, is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is composed of two polymer chains which are polypeptides in human. ATP citrate lyase is responsible for catalyzing the conversion of citrate and CoA into acetyl-CoA and oxaloacetate, along with the hydrolysis of ATP. A definitive role for ATP citrate lyase in tumorigenesis has emerged from ATP citrate lyase RNAi and chemical inhibitor studies, showing that ATP citrate lyase inhibition limits tumor cell proliferation and survival and induces differentiation in vitro. In vivo, it reduces tumor growth leading to a cytostatic effect and induces differentiation.
References	Kim W, et al. (2006) Both subunits of ATP-citrate lyase from Chlorobium tepidum contribute to catalytic activity. J Bacteriol. 188 (18) : 6544-52.Ki SW, et al. (2000) Radicicol binds and inhibits mammalian ATP citrate lyase. J Biol Chem. 275 (50) : 39231-6.Schneider K, et al. (2000) Biosynthesis of the prosthetic group of citrate lyase. Biochemistry. 39 (31) : 9438-50.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38569421
NCBI GeneID	47
NCBI Accession #	NP_001087.2
NCBI GenBank Nucleotide #	NM_001096.2
UniProt Accession #	P53396; Q13037; Q9BRL0; B4DIM0
Molecular Weight	120,839 Da
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
NCBI Protein Information	ATP-citrate synthase; ATP citrate synthase; citrate cleavage enzyme; ATP-citrate (pro-S-)-lyase
UniProt Protein Name	ATP-citrate synthase
UniProt Gene Name	ACLY
UniProt Synonym Gene Names	ACL
UniProt Entry Name	ACLY_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/polyclonal/atp-citrate-lyase-acly-antibody-immunoprecipitation-western-blot-elisa/255468>