

Rabbit ATP citrate lyase Polyclonal Antibody | anti-ATP antibody

ATP citrate lyase Antibody

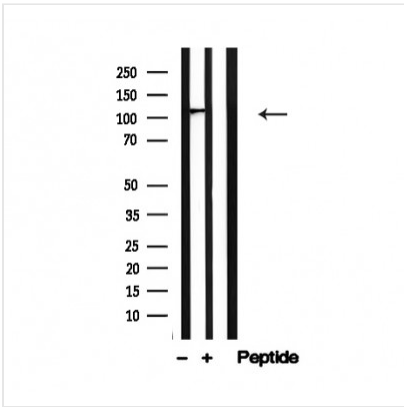
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329524	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (91%), Xenopus (100%)	ELISA, Western Blot

PRODUCT SYNONYMS

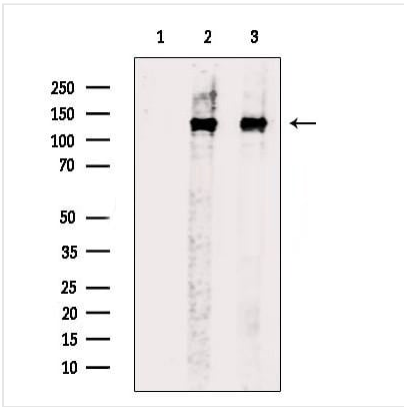
ATP citrate lyase; Polyclonal Antibody; ATP citrate lyase Antibody; ACL; Acly; ACLY_HUMAN; ATP citrate (pro-S) lyase; ATP citrate synthase; ATP-citrate (pro-S)-lyase; ATP-citrate synthase; ATPcitrate synthase; ATPCL; Citrate cleavage enzyme; CLATP; OTTHUMP00000164773; anti-ATP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (91%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	ATP citrate lyase Antibody detects endogenous levels of total ATP citrate lyase.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ATP antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATP citrate lyase, corresponding to a region within the internal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by PKA and GSK3 in a sequential manner; phosphorylation results in activation of its activity. Phosphorylation on Thr-447 and Ser-451 depends on the phosphorylation state of Ser-455 (By similarity). Phosphorylation on Ser-455 is decreased by prior phosphorylation on the other 2 residues (By similarity). ISGylated. Acetylated at Lys-540, Lys-546 and Lys-554 by KAT2B/PCAF. Acetylation is promoted by glucose and stabilizes the protein, probably by preventing ubiquitination at the same sites. Acetylation promotes de novo lipid synthesis. Deacetylated by SIRT2. Ubiquitinated at Lys-540, Lys-546 and Lys-554 by UBR4, leading to its degradation. Ubiquitination is probably inhibited by acetylation at same site (Probable).
Subunit Structure	Homotetramer.
Similarity	In the N-terminal section; belongs to the succinate/malate CoA ligase beta subunit family. In the C-terminal section; belongs to the succinate/malate CoA ligase alpha subunit family.
Subcellular Location	Cytoplasm>Cytosol.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of ATP citrate lyase in lysates of COS7 , using ATP citrate lyase Antibody(AF4668).



WB (Western Blot)
Western blot analysis of extracts from various samples, using ATP citrate lyase Antibody.Lane 1: NIH-3T3 cells, blocked with antigen-specific peptides,Lane 2: NIH-3T3 cells,Lane 3: A2780 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP antibody	Catalyzes the cleavage of citrate into oxaloacetate and acetyl-CoA, the latter serving as common substrate for de novo cholesterol and fatty acid synthesis.
---	--

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.