

Mouse anti-Human ATP-Citrate Lyase Monoclonal Antibody | anti-ACLY antibody

ATP-Citrate Lyase (ACLY) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA111291	Mouse	Human	Flow Cytometry, Functional Assay, Immunocytochemistry, Western Blot

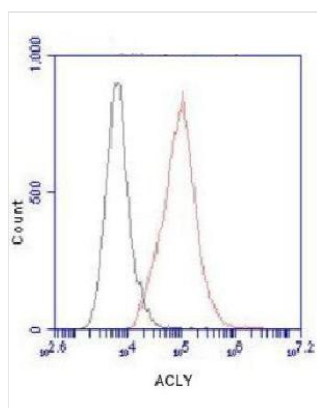
PRODUCT SYNONYMS

ATP-Citrate Lyase; Monoclonal Antibody; ATP-Citrate Lyase (ACLY) Antibody; ACL; ATPCL; CLATP; anti-ACLY antibody

PRODUCT SPECIFICATIONS

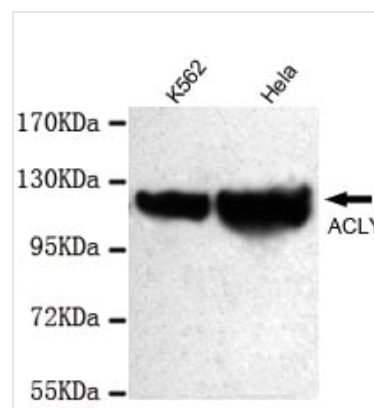
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Specificity	This antibody detects endogenous levels ATP-Citrate Lyase and does not cross-react with related proteins.
Purity/Purification	Affinity purified
Form/Format	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%, glycerol
Sequence Length	1101
Applicable Applications for anti-ACLY antibody	FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Purified recombinant human ATP-Citrate Lyase protein fragments expressed in E Coli.
Cellular Localization	Cytoplasm

IMAGES



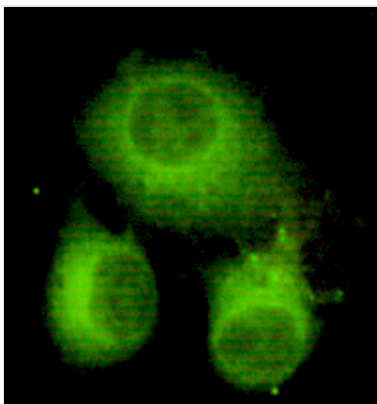
Application Data

Flow Cytometry analysis of HeLa cells stained with ATP-Citrate Lyase (red, 1/100 dilution), followed by FITC-conjugated goat anti-mouse IgG. Black line histogram represents the isotype control, normal mouse IgG.



Application Data

Western blot detection of ATP-Citrate Lyase antibody in K562&HeLa cell lysates using ATP-Citrate Lyase antibody (1:1000 diluted). Predicted band size: 120KDa Observed band size: 120KDa.



Application Data

Immunocytochemistry of HeLa cells using anti- ATP-Citrate Lyase (C-terminus) antibody diluted 1:150.

ADDITIONAL INFORMATION

Related Product Information for anti-ACLY antibody	UniPort Summary Function: 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. Entrez Summary: 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 cholesterologenesis. In nervous tissue, ATP citrate-lyase may be involved in the biosynthesis of acetylcholine. Two transcript variants encoding distinct isoforms have been identified for this gene.
Product Categories/Family for anti-ACLY antibody	Autophagy antibody ; Cancer ; Cardiovascular ; Cell Biology ; Epigenetics & Nuclear Signaling ; Developmental Biologys ; Immunology ; Drug Discovery Products ; Metabolism ; Neuroscience ; Signal Transduction ; Stem Cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	38569421
NCBI GeneID	47
NCBI Accession #	NP_001087.2
NCBI GenBank Nucleotide #	NM_001096
UniProt Accession #	P53396 ; Q13037 ; Q9BRL0 ; B4DIM0 ; B4E3P0
Molecular Weight	120kDa
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
UniProt Protein Name	ATP-citrate synthase
UniProt Gene Name	ACLY
UniProt Synonym Gene Names	ACL

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.

