



# ATP-Citrate Lyase(C-term) mouse mAb

<b>Catalog No</b>	YP-Ab-02358
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Monkey
<b>Applications</b>	WB;ICC;FC
<b>Gene Name</b>	acly
<b>Protein Name</b>	
<b>Immunogen</b>	Purified recombinant human ATP-Citrate Lyase protein fragments expressed in E.coli.
<b>Specificity</b>	This antibody detects endogenous levels of ATP-Citrate Lyase and does not cross-react with related proteins.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	wb 1:1000 icc 1:150 fcm 1:100
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	ACL;Acly;ACLY_HUMAN;ATP citrate (pro-S) lyase;ATP citrate lyase;ATP citrate synthase; ATP-citrate (pro-S-)-lyase;ATP-citrate synthase;ATPcitrate synthase;ATPCL;Citrate cleavage enzyme;CLATP;EC 2.3.3.8;OTTHUMP00000164773.
<b>Observed Band</b>	120kD
<b>Cell Pathway</b>	Cytoplasm, cytosol .
<b>Tissue Specificity</b>	Brain,Epithelium,Hippocampus,Liver,Lymph,Platelet,
<b>Function</b>	catalytic activity:ADP + phosphate + acetyl-CoA + oxaloacetate = ATP + citrate + CoA.,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.,similarity:In the C-terminal section; belongs to the succinate/malate CoA ligase alpha subunit family.,similarity:In the N-terminal section; belongs to the succinate/malate CoA ligase beta subunit family.,subunit:Homotetramer.,
<b>Background</b>	ATP citrate lyase(ACLY) Homo sapiens 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. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Dec 2014],

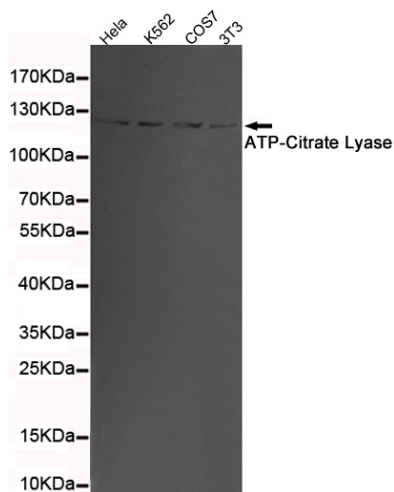
**matters needing attention**

Avoid repeated freezing and thawing!

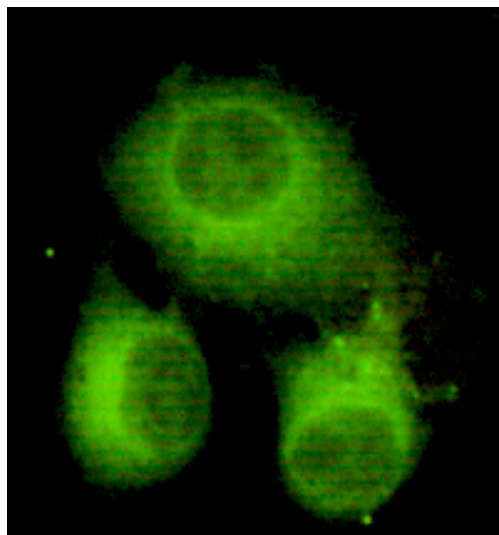
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

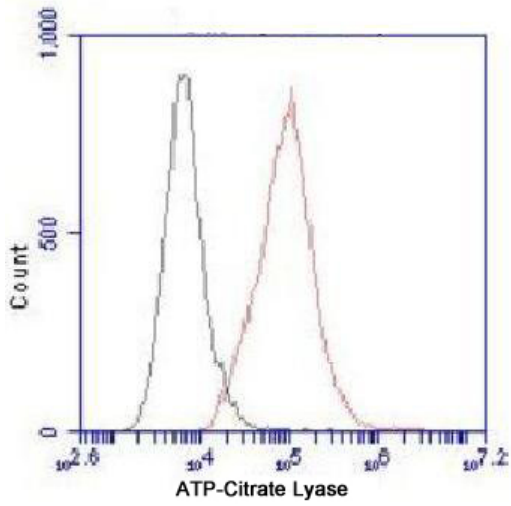
## Products Images



Western blot detection of ATP-Citrate Lyase in 3T3, K562, COS7 and HeLa cell lysates using ATP-Citrate Lyase mouse mAb (1:1000 diluted). Predicted band size: 120KDa. Observed band size: 120KDa.



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



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