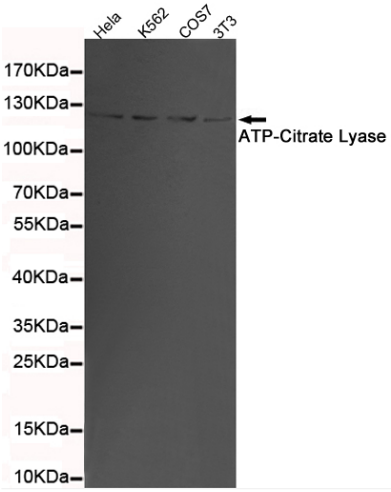
ATP-Citrate Lyase(C-term) mouse mAb

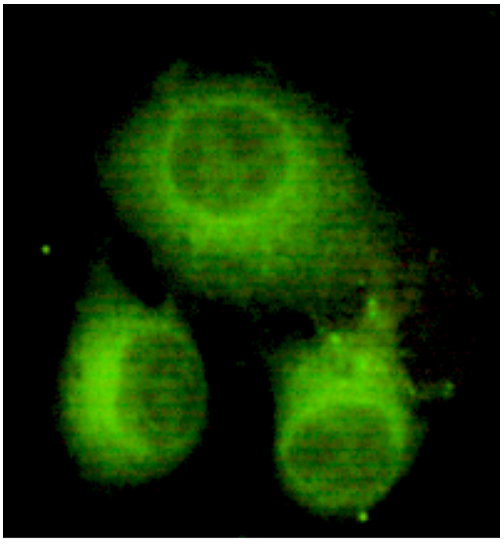
Catalog No	BYab-02358
Isotype	IgG
Reactivity	Human;Mouse;Monkey
Applications	WB;ICC;FC
Gene Name	acly
Protein Name	
Immunogen	Purified recombinant human ATP-Citrate Lyase protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of ATP-Citrate Lyase and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:1000 icc 1:150 fcm 1:100
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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.
Observed Band	120kD
Cell Pathway	Cytoplasm, cytosol .
Tissue Specificity	Brain,Epithelium,Hippocampus,Liver,Lymph,Platelet,
Function	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.,

Background	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 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],
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.

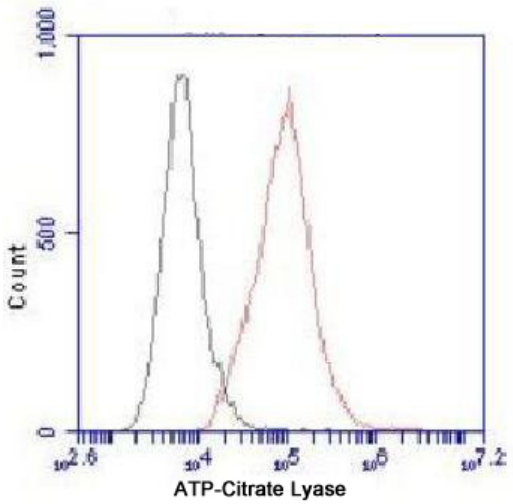
Products Images



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