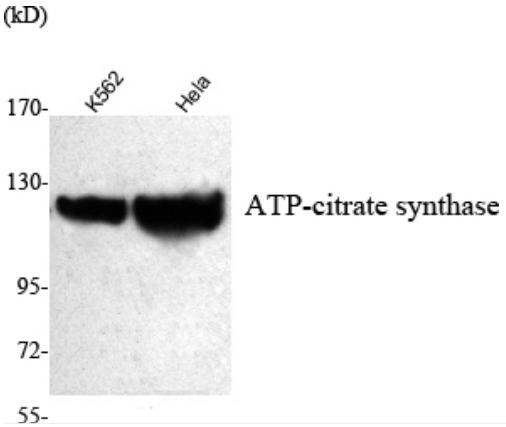
ATP-citrate synthase Monoclonal Antibody

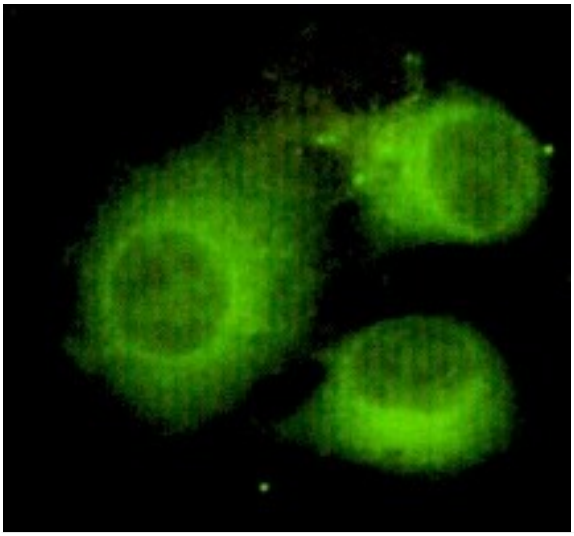
Catalog No	BYab-02347
Isotype	IgG
Reactivity	Human;Mouse;Rat;Bovine;Chicken;Pig;sheep
Applications	WB;IF;FCM
Gene Name	ACLY
Protein Name	ATP-citrate synthase
Immunogen	Purified recombinant human ATP-citrate synthase (C-terminus) protein fragments expressed in E.coli.
Specificity	ATP-citrate synthase Monoclonal Antibody detects endogenous levels of ATP-citrate synthase protein.
Formulation	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/1000 - 1/2000. Immunofluorescence: 1/100 - 1/500. Flow cytometry: 1/100 - 1/200. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ACLY; ATP-citrate synthase; ATP-citrate; pro-S-)-lyase; ACL; Citrate cleavage enzyme
Observed Band	
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.

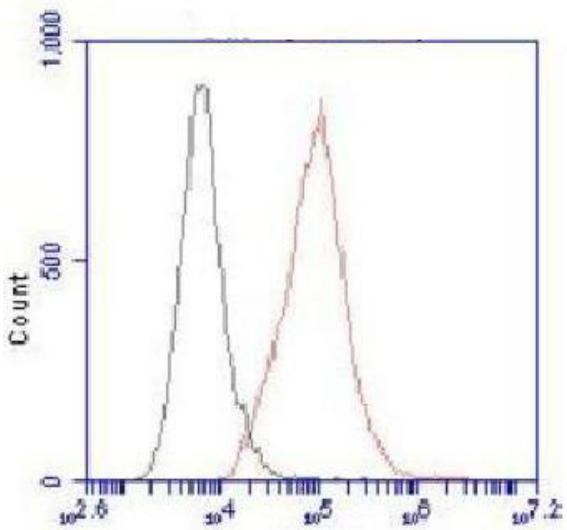
Products Images



Western Blot analysis using ATP-citrate synthase Monoclonal Antibody against K562, HeLa cell lysate.



Immunofluorescence analysis of HeLa cells using ATP-citrate synthase Monoclonal Antibody.



Flow cytometric analysis of HeLa cells stained with ATP-citrate synthase Monoclonal Antibody (red), followed by FITC-conjugated goat anti-mouse IgG. Black line histogram represents the isotype control, normal mouse IgG.