

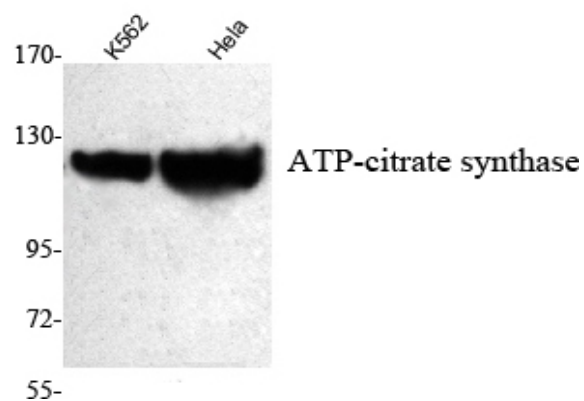
ATP-citrate synthase Monoclonal Antibody

Catalog No :	YM1013
Reactivity :	Human;Mouse;Rat;Bovine;Chicken;Pig;sheep
Applications :	WB;IF;FCM
Target :	ATP-citrate synthase
Fields :	>>Citrate cycle (TCA cycle);>>Metabolic pathways
Gene Name :	ACLY
Protein Name :	ATP-citrate synthase
Human Gene Id :	47
Human Swiss Prot No :	P53396
Mouse Gene Id :	104112
Mouse Swiss Prot No :	Q91V92
Rat Gene Id :	24159
Rat Swiss Prot No :	P16638
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 :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000 - 1:2000. IF 1:100 - 1:500. Flow cytometry: 1:100 - 1:200. Not yet tested in other applications.

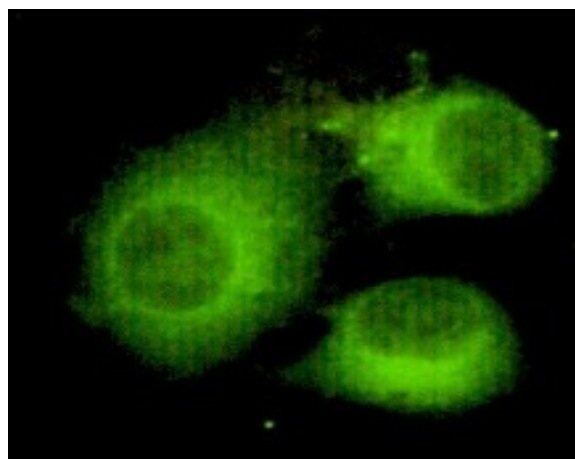
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	121kD
Cell Pathway :	Citrate cycle (TCA cycle);
Background :	<p>ATP citrate lyase(ACLY) Homo sapiens ATP citrate lyase is the primary enzyme responsible for 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],</p>
Function :	<p>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.,</p>
Subcellular Location :	Cytoplasm, cytosol .
Expression :	Brain,Epithelium,Hippocampus,Liver,Lymph,Platelet,

Products Images

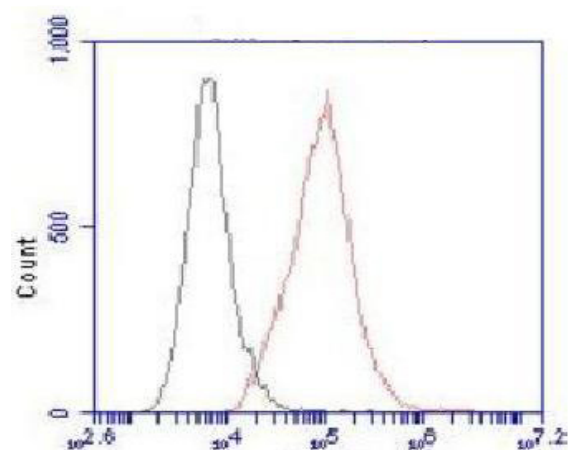
(kD)



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.