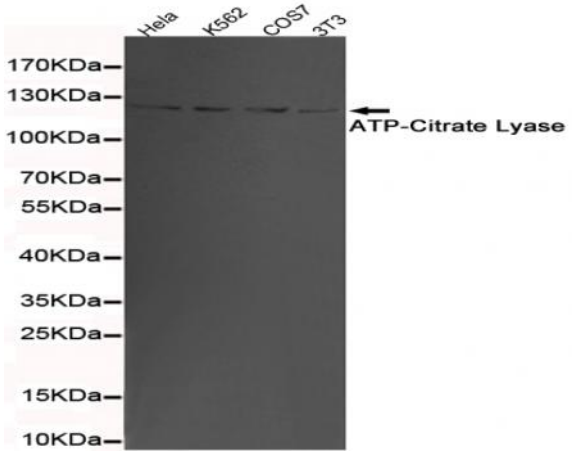
Best Tools for immunology Research

ATP-Citrate Lyase(C-term) mouse mAb

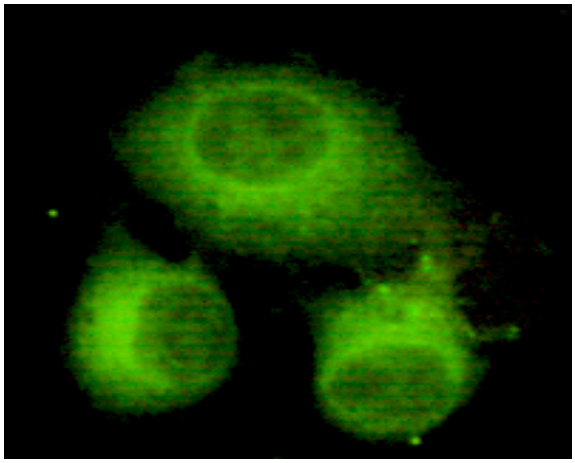
Catalog No :	YM1260
Reactivity :	Human;Mouse;Monkey
Applications :	WB;ICC;FC
Target :	ATP-citrate synthase
Fields :	>>Citrate cycle (TCA cycle);>>Metabolic pathways
Gene Name :	acly
Human Gene Id :	47
Human Swiss Prot No :	P53396
Mouse Swiss Prot No :	Q91V92
Immunogen :	Purified recombinant human ATP-Citrate 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
Dilution :	wb 1:1000 icc 1:150 fcm 1:100
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	120kD

Cell Pathway :	Citrate cycle (TCA cycle);
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],
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.,
Subcellular Location :	Cytoplasm, cytosol .
Expression :	Brain,Epithelium,Hippocampus,Liver,Lymph,Platelet,
Sort :	2440
No4 :	1
Host :	Mouse
Modifications :	Unmodified

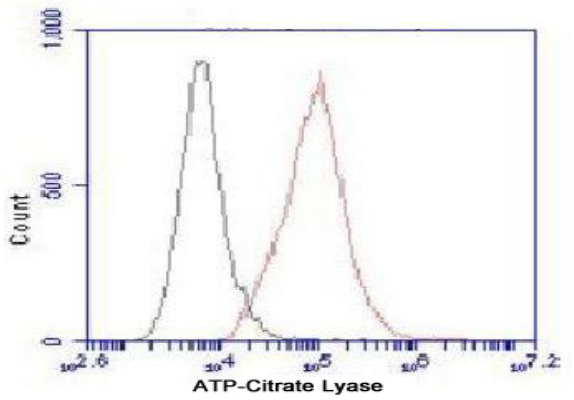
Products Images



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