

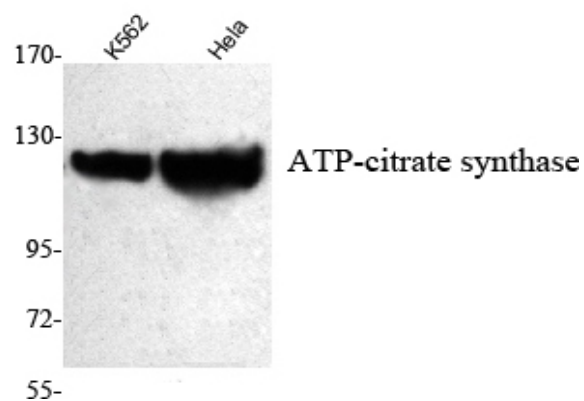
ATP-citrate synthase Monoclonal Antibody

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|------------------------------|--|
| 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. |

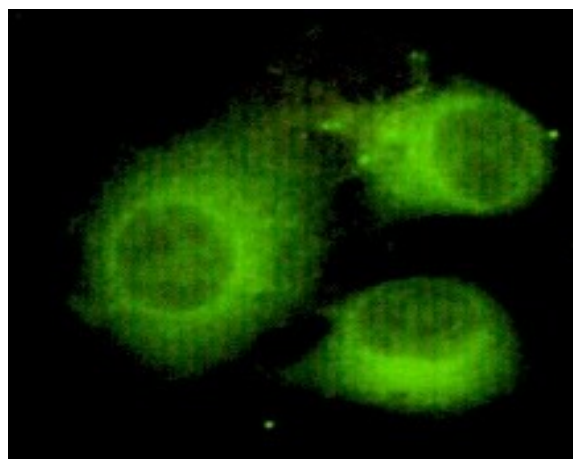
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| Purification : | Affinity purification |
| Concentration : | 1 mg/ml |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Molecularweight : | 121kD |
| Cell Pathway : | Citrate cycle (TCA cycle); |
| Background : | ATP citrate 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], |
| 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, |

Products Images

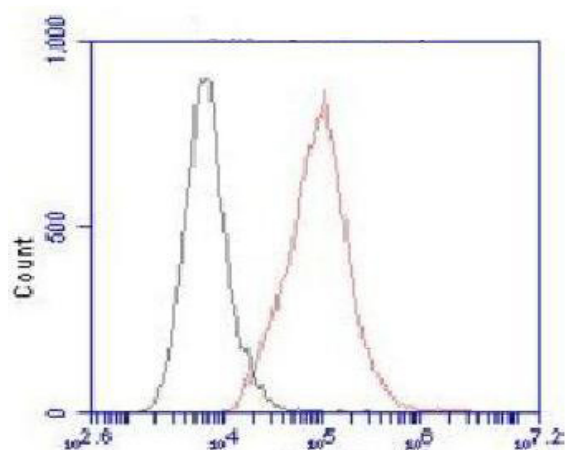
(kD)



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.