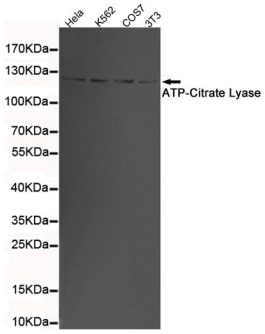
ATP-Citrate Lyase(C-term)

Mouse monoclonal Antibody

#53554

Catalog Number: 53554
Amount: 100μg/100μl
Swiss-Prot No. :P53396
Gene name:acly
Gene id:47
Clone Number： 3D9-E9-H8
Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Storage/Stability: Store at -20℃/1 year
Immunogen: Purified recombinant human ACLY(C-term) protein fragments expressed in E.coli
Purification: affinity-chromatography
Specificity/Sensitivity: This antibody detects endogenous levels of ACLY and does not corss-react with related proteins
Reactivity: Human,Mouse,Monkey
Applications: Predicted MW: 120kd WB: 1:1000 ICC:1:150



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.

Background:

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. Two transcript variants encoding distinct isoforms have been identified for this gene.