



ATP-citrate synthase Monoclonal Antibody

Catalog No	YP-mAb-02506
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ACLY
Immunogen	The antiserum was produced against synthesized peptide derived from human ATP-Citrate Lyase. AA range:420-469
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,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ATP citrate lyase;ACL;ATP-citrate;ATP-citrate synthase;EC:2.3.3.8;ACLY;pro-S-)-lyase;Citrate cleavage enzyme
Observed Band	120kD
Calculated Molecular Weight	120kD
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 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],

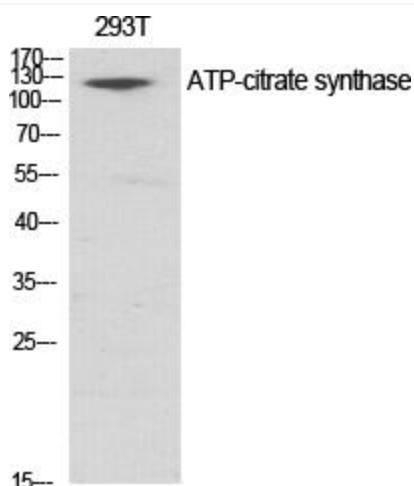
matters needing attention

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 of various cells using ATP-citrate synthase Monoclonal Antibody