

ATP-Citrate Lyase (PT0552R) PT® Rabbit mAb

Catalog No :	YM8372
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
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
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:2000-1:10000;WB 1:2000-1:10000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
Purification :	Protein A

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 121kD

Observed Band : 121kD

Cell Pathway : Citrate cycle (TCA cycle);

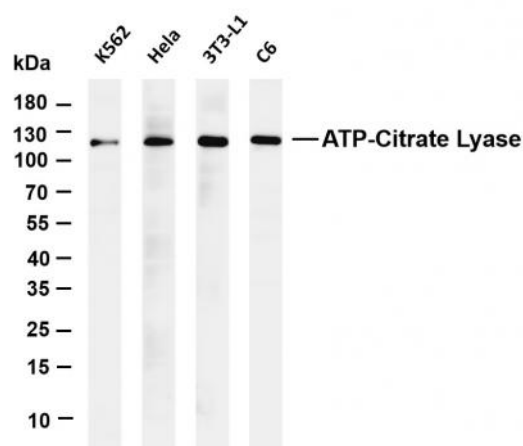
Background : ATP citrate lyase(ACLY) Homo sapiens ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer (relative molecular weight approximately 440,000) of apparently identical subunits. It catalyzes the formation of acetyl-CoA 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.,

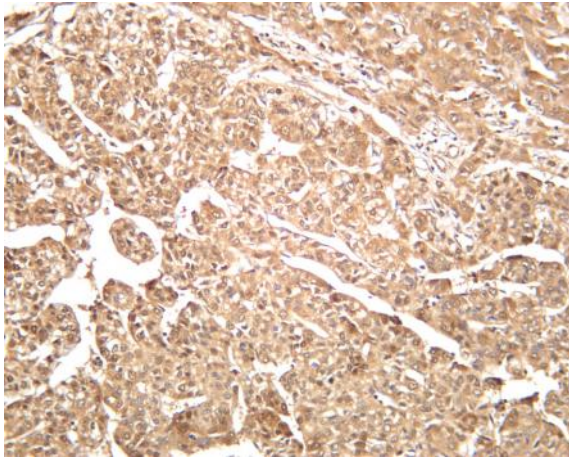
Subcellular Location : Cytoplasm

Expression : Brain,Epithelium,Hippocampus,Liver,Lymph,Platelet,

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-ATP-Citrate Lyase (PT0552R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Lane 2: HeLa Lane 3: 3T3-L1 Lane 4: C6 Predicted band size: 121kDa Observed band size: 121kDa



Human hepatocellular carcinoma was stained with anti-ATP-Citrate Lyase (PT0552R) rabbit antibody