

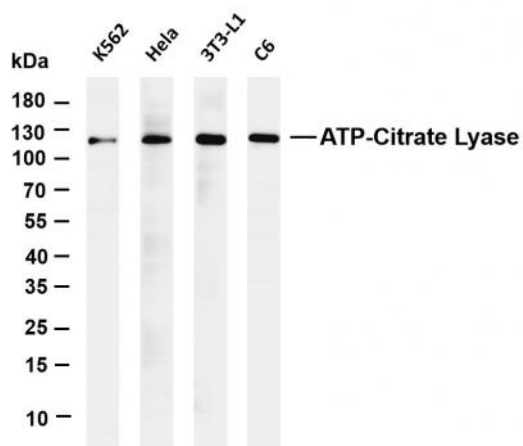
**ATP-Citrate Lyase (PT0552R) PT® Rabbit mAb**

<b>Catalog No :</b>	YM8372
<b>Reactivity :</b>	Human; Mouse; Rat;
<b>Applications :</b>	WB;IHC;IF;IP;ELISA
<b>Target :</b>	ATP-citrate synthase
<b>Fields :</b>	>>Citrate cycle (TCA cycle);>>Metabolic pathways
<b>Gene Name :</b>	ACLY
<b>Protein Name :</b>	ATP-citrate synthase
<b>Human Gene Id :</b>	47
<b>Human Swiss Prot No :</b>	P53396
<b>Mouse Gene Id :</b>	104112
<b>Mouse Swiss Prot No :</b>	Q91V92
<b>Rat Gene Id :</b>	24159
<b>Rat Swiss Prot No :</b>	P16638
<b>Specificity :</b>	endogenous
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Monoclonal, rabbit, IgG, Kappa
<b>Dilution :</b>	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;
<b>Purification :</b>	Protein A

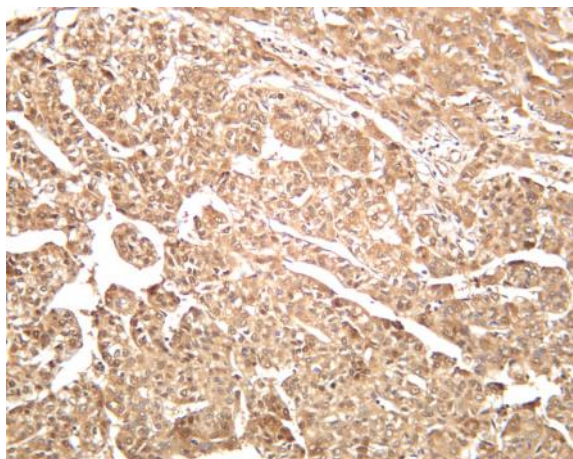
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<b>Storage Stability :</b>	<u>-15°C to -25°C/1 year(Do not lower than -25°C)</u>
<b>Molecularweight :</b>	<u>121kD</u>
<b>Observed Band :</b>	<u>121kD</u>
<b>Cell Pathway :</b>	<u>Citrate cycle (TCA cycle);</u>
<b>Background :</b>	<p>ATP citrate lyase(ACLY) 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],</p>
<b>Function :</b>	<p>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.,</p>
<b>Subcellular Location :</b>	<u>Cytoplasm</u>
<b>Expression :</b>	<u>Brain,Epithelium,Hippocampus,Liver,Lymph,Platelet,</u>
<b>Tag :</b>	<u>hot,recombinant</u>
<b>Sort :</b>	<u>2443</u>
<b>No4 :</b>	<u>1</u>
<b>Host :</b>	<u>Rabbit</u>
<b>Modifications :</b>	<u>Unmodified</u>

## 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