

ATP-Citrate Lyase (PT0552R) PT™ Rabbit mAb

CatalogNo: YM8372

Recombinant KD/KO Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, IP, ELISA

MW

- 121kD (Calculated)
121kD (Observed)

Isotype

- IgG, Kappa

Storage

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

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

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

Basic Information

Clonality Monoclonal

Clone Number PT0552R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity Endogenous

Target Information

Gene name ACLY
Protein Name ATP-citrate synthase

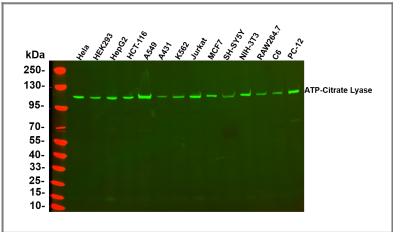
Organism	Gene ID	UniProt ID
Human	47 ;	P53396 ;
Mouse	104112 ;	Q91V92 ;
Rat	24159 ;	P16638 ;

Cellular Localization Cytoplasm

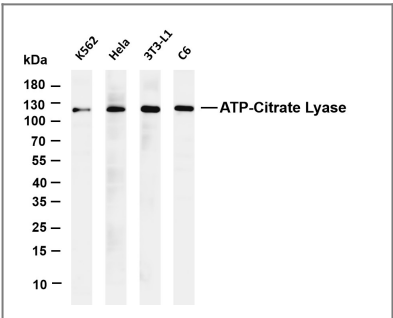
Tissue specificity Brain ,Epithelium ,Hippocampus ,Liver ,Lymph ,Platelet ,

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. ,

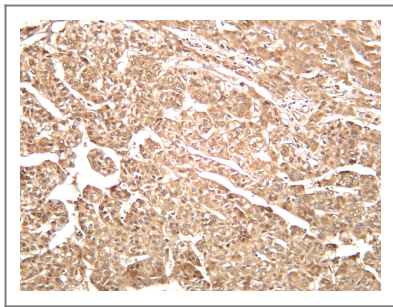
Validation Data



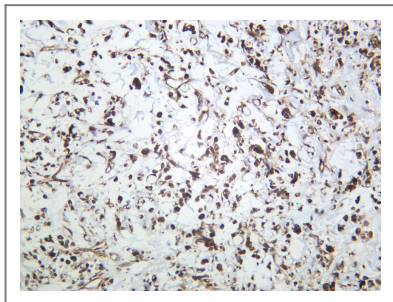
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HeLa - Human cervical cancer Lane2: HEK293 - Human normal embryonic kidney Lane3: HepG2 - Human hepatocellular carcinoma Lane4: HCT-116 - Human colon cancer Lane5: A549 - Human lung adenocarcinoma Lane6: A431 - Human skin squamous cell carcinoma Lane7: K562 - Human chronic myeloid leukemia Lane8: Jurkat - Human acute T cell leukemia cells Lane9: MCF7 - Human breast cancer Lane10: SH-SY5Y - Human neuroblastoma cells Lane11: NIH-3T3 - NIH mouse fibroblasts Lane12: RAW264.7 - Mouse mononuclear macrophage leukemia cells Lane13: C6 - Rat glioma cells Lane14: PC-12 - Pheochromocytoma in rats Predicted band size: 120kDa Observed band size: 120kDa



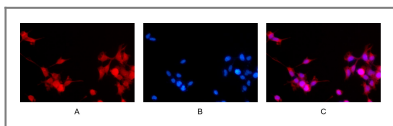
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-ATP-Citrate Lyase antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: K562 Lane 2: HeLa Lane 3: 3T3-L1 Lane 4: C6 Predicted band size: 121kDa Observed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



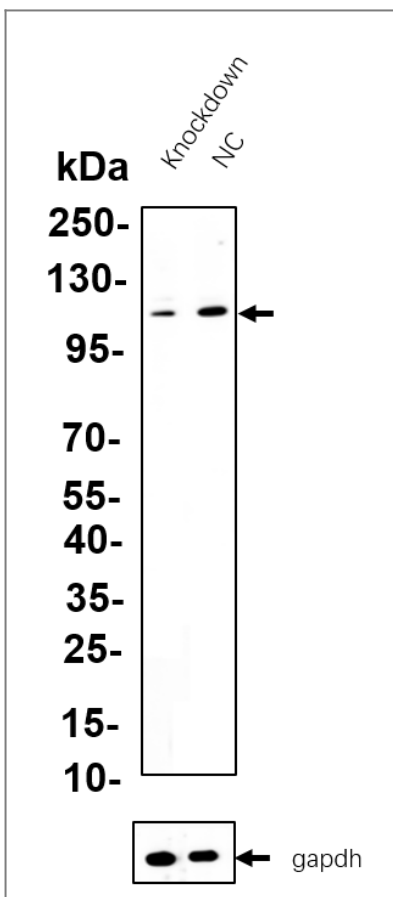
Human hepatocellular carcinoma was stained with anti-ATP-Citrate Lyase rabbit antibody



Human gastric carcinoma was stained with anti-ATP-Citrate Lyase Rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: ATP-Citrate lyase antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Western blot analysis of lysates from A549 WT and knockdown cell. Cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with primary rabbit mAb. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

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