

A Reliable Research Partner in Life Science and Medicine

## **Recombinant ATP Citrate Lyase Monoclonal Antibody**

catalog number: AN302052L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### Description

Reactivity Human;Rat;Mouse

**Immunogen** Peptide. This information is proprietary to PTMab.

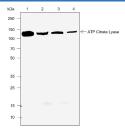
HostRabbitIsotype $IgG, \kappa$ CloneA772

Purification Protein A purified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution	
WB	1:1000	
IHC	1:500	

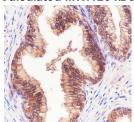
#### **Data**

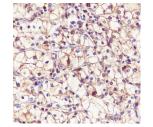


Western Blot with ATP Citrate Lyase Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: HepG2, Lane 3: NIH-3T3, Lane 4: Rat lung

t Immunohistochemistry of paraffin-embedded Human pancreas using ATP Citrate Lyase Monoclonal Antibody at dilution of 1:500.

Observed-MW:125 kDa Calculated-MW:120 kDa





Immunohistochemistry of paraffin-embedded Human prostate hyperplasia using ATP Citrate Lyase Monoclonal Antibody at dilution of 1:500.

Immunohistochemistry of paraffin-embedded Human renal clear cell carcinoma using ATP Citrate Lyase Monoclonal Antibody at dilution of 1:500.

Rev. V1.1

### **Preparation & Storage**

Storage Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping lce bag

#### **Background**

#### For Research Use Only

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#### **Elabscience Bionovation Inc.**

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ATP-citrate lyase (ACL) is a homotetramer that catalyzes the formation of acetyl-CoA and oxaloacetate (OAA) in the cytosol, which is the keystep for the biosynthesis of fatty acids, cholesterol and acetylcholine, as well as for glucogenesis. Nutrients and hormones regulate the expression level and phosphorylation of ATP-citrate lyase. It is phosphorylated by GSK-3 on Thr446 and Ser450. Ser455 of ATP-citrate lyasehas been reported to be phosphorylated by PKA and Akt. Phosphorylation on Ser455 abolishes the homotropic allosteric regulation by citrate and enhances the catalytic activity of the enzyme.

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