Recombinant ATP Citrate Lyase Monoclonal Antibody

catalog number: **AN302052L**

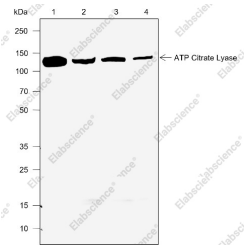
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	Peptide. This information is proprietary to PTMab.
Host	Rabbit
Isotype	Rabbit IgG
Clone	C121673
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

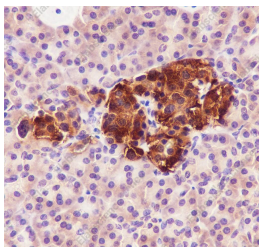
Data



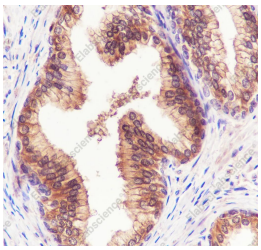
Western Blot with ATP Citrate Lyase Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: HepG2, Lane 3: NIH-3T3, Lane 4: Rat lung

Observed-MW:125 kDa

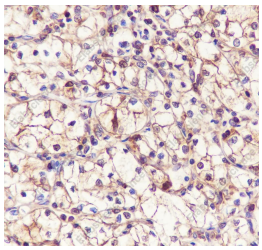
Calculated-MW:120 kDa



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



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.

Preparation & Storage

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

Background

Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web: www.elabscience.com
Email: techsupport@elabscience.com

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 theexpression 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 citrateand enhances the catalytic activity of the enzyme.

Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web: www.elabscience.com
Email: techsupport@elabscience.com