

Anti-ATP citrate lyase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

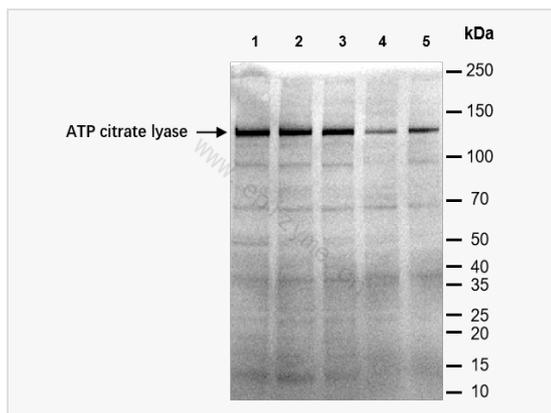
Catalog # R014275

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:3,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	66B75C05
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human ATP citrate lyase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ATP citrate lyase Rabbit mAb [66B75C05] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	ACL, Acly, ACLY_HUMAN, ATP citrate (pro-S) lyase, ATP citrate lyase, ATP citrate synthase, ATP-citrate (pro-S)-lyase, ATP-citrate synthase, ATPcitrate synthase, ATPCL, Citrate cleavage enzyme, CLATP, OTTHUMP00000164773.
Calculated MW	Calculated MW: 121 kDa; Observed MW: 121 kDa
Uniprot ID	P53396
Gene ID	47
Background	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.
Cellular Location	Cytoplasm.



Western Blot - Anti-ATP citrate lyase Rabbit mAb [66B75C05]

All lanes: R014275 at 1:3,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

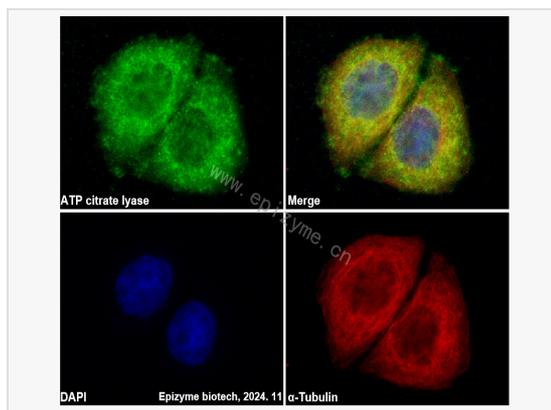
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 121 kDa

Observed band size: 121 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-ATP citrate lyase Rabbit mAb [66B75C05]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014275 at 1:100 dilution and alpha-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).