

Anti-ATP citrate lyase Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

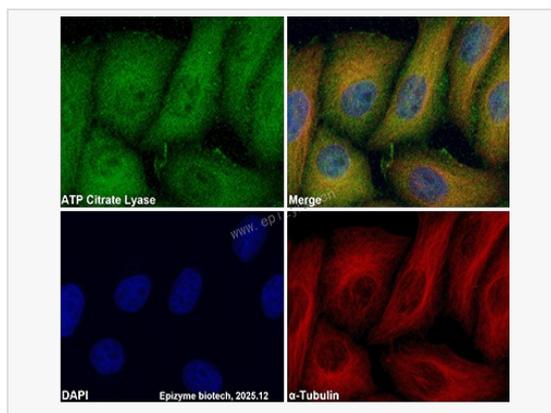
Catalog # M010748

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	97K18M95
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human ATP citrate lyase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% 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 Mouse mAb [97K18M95] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	ACL; ATP citrate (pro-S) lyase; ATP citrate synthase; Citrate cleavage enzyme; EC 2.3.3.8; A730098H14RIK; ACLY; ATP CITRATE LYASE; ATPCL; AW538652; Cce; CITRATE LYASE; CLATP; MGC124629.
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. 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]
Cellular Location	Cytoplasm Cytosol



Immunofluorescence - Anti-ATP citrate lyase Mouse mAb [97K18M95]

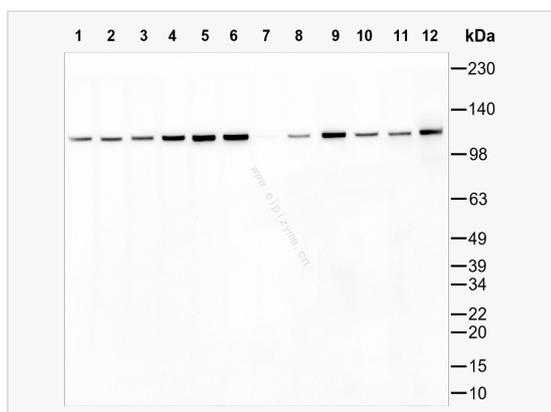
Sample: HeLa cells

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 antibody: M010748 at 1:100 dilution and α -tubulin Rabbit Monoclonal Antibody (Cat. No. LF213) at 1:100 dilution

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

Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-ATP citrate lyase Mouse mAb [97K18M95]

All lanes: M010748 at 1:1,000 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: MCF-7 (human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 5: 293T (Human embryonic kidney cell) whole cell lysates

Lane 6: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates

Lane 7: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 8: Mouse brain whole tissue lysates

Lane 9: Mouse liver whole tissue lysates

Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 11: Rat brain whole tissue lysates

Lane 12: Rat liver whole tissue lysates

Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 121 kDa

Observed band size: 121 kDa

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