

## ACLY

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC ICC IF IP FC

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 ICC 1:50 - 1:200 IF 1:50 - 1:100  
IP 1:20 - 1:50 FC 1:20 - 1:50

**Calculated MW:**122 kDa

**Observed MW:**Refer to figures

**Immunogen:**

Recombinant protein of human ACLY

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

ACL; ATPCL; CLATP;

**Catalog #:**A11105

**Antibody Type:**

Monoclonal Antibody

**Species:**Rabbit

**Gene ID:**47

**Isotype:**IgG

**Swiss Prot:**P53396

**Purity:**Affinity purification

For research use only.

**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.

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