

## Product datasheet for **TA349693**

### ATP citrate lyase (ACLY) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 500-2000 WB positive control: A172 and PC3 cells
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human ACLY
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	121 kDa
Gene Name:	ATP citrate lyase
Database Link:	<a href="#">NP_942127</a> <a href="#">Entrez Gene 24159 Rat</a> <a href="#">Entrez Gene 104112 Mouse</a> <a href="#">Entrez Gene 47 Human</a> <a href="#">P53396</a>

**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. Two transcript variants encoding distinct isoforms have been identified for this gene.



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Synonyms: ACL; ATPCL; CLATP

Protein Families: Druggable Genome

Protein Pathways: Citrate cycle (TCA cycle), Metabolic pathways

### Product images:



Gel: 6%SDS-PAGE

Lysate: 40 µg

Lane 1-2: A172 cells

PC3 cells

Primary antibody: TA349693 (ACLY Antibody) at dilution 1/1050

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 30 seconds