

Product datasheet for **TA346872M**

ATP citrate lyase (ACLY) Mouse Monoclonal Antibody [Clone ID: 3D9-E9-H8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3D9-E9-H8
Applications:	FC, IF, WB
Recommended Dilution:	WB: 1:1000, IF: 1:150, FC: 1:100
Reactivity:	Human, Monkey, Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	The immunogen for ACLY antibody: purified recombinant human ATP-Citrate Lyase protein fragments expressed in E.coli.
Formulation:	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.02% sodium azide, 50% glycerol
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	120 kDa
Gene Name:	ATP citrate lyase
Database Link:	NP_001087 Entrez Gene 104112 Mouse Entrez Gene 47 Human P53396

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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.
Synonyms:	ACL; ATPCL; CLATP
Protein Families:	Druggable Genome
Protein Pathways:	Citrate cycle (TCA cycle), Metabolic pathways