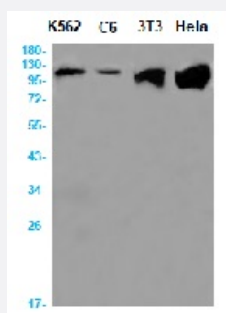


RecomAb™

# ACLY recombinant monoclonal antibody, clone R02-9B5

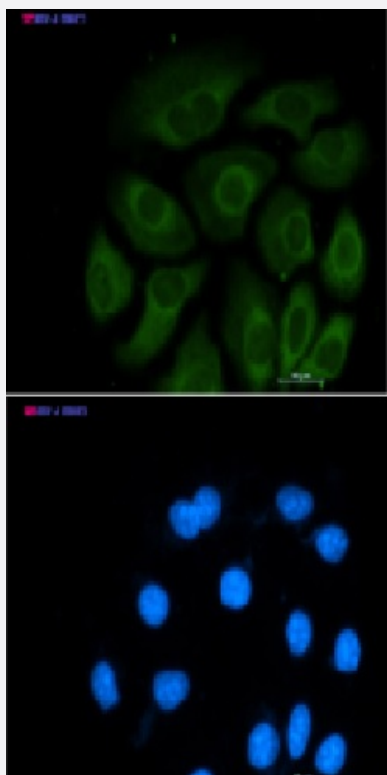
Catalog # RAB01579      Size 100 uL

## Applications



### Western Blot

Western blot analysis of ATP citrate lyase in K562, C6, 3T3, HeLa lysates using human ATP citrate lyase recombinant monoclonal antibody, clone R02-9B5 (Cat # RAB01579).



### Immunocytochemistry

Immunocytochemistry analysis of ATP Citrate lyase (green) in A549 using human ATP citrate lyase recombinant monoclonal antibody, clone R02-9B5 (Cat # RAB01579), and DAPI (blue).

## Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human ATP citrate lyase.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ATP citrate lyase
Theoretical MW (kDa)	Calculated MW: 121 k
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence(1:50-1:200) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4, (0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

Western blot analysis of ATP citrate lyase in K562, C6, 3T3, Hela lysates using human ATP citrate lyase recombinant monoclonal antibody, clone R02-9B5 (Cat # RAB01579).

- Immunocytochemistry

Immunocytochemistry analysis of ATP Citrate lyase (green) in A549 using human ATP citrate lyase recombinant monoclonal antibody, clone R02-9B5 (Cat # RAB01579), and DAPI(blue).

- Immunoprecipitation

## Gene Info — ACLY

Entrez GeneID

[47](#)

Protein Accession#	<a href="#">P53396</a>
Gene Name	ACLY
Gene Alias	ACL, ATPCL, CLATP
Gene Description	ATP citrate lyase
Omim ID	<a href="#">108728</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	<p>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. [provided by RefSeq]</p>
Other Designations	OTTHUMP00000164773

## Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Metabolic pathways](#)
- [Reductive carboxylate cycle \(CO2 fixation\)](#)

## Disease

- [Schizophrenia](#)
- [Weight Gain](#)