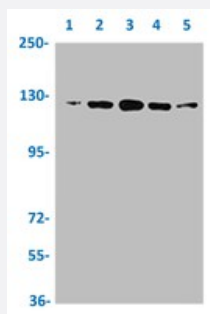


RecomAb™

ACLY recombinant monoclonal antibody, clone 3A5

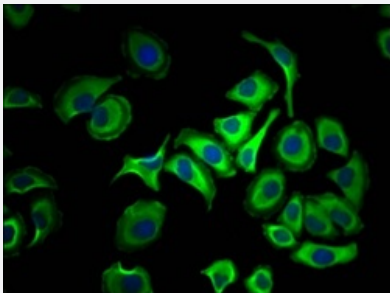
Catalog # RAB04398 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: L02 whole cell lysate, Lane 2: K562 whole cell lysate, Lane 3: HeLa whole cell lysate, Lane 4: Raji whole cell lysate and Lane 5: A549 whole cell lysate with ACLY recombinant monoclonal antibody, clone 3A5 (Cat # RAB04398).



Immunofluorescence

Immunofluorescent staining of HepG2 cells with ACLY recombinant monoclonal antibody, clone 3A5 (Cat # RAB04398) (diluted at 1:50). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

Flow Cytometry

Flow cytometric analysis of HeLa cells with ACLY recombinant monoclonal antibody, clone 3A5 (Cat # RAB04398) (diluted at 1:50; purple line) and negative control (green line).

Specification

Product Description

Rabbit recombinant monoclonal antibody raised against human ACLY.

Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ACLY.
Theoretical MW (kDa)	Calculated MW: 121,
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry (1:20-1:200) Immunofluorescence (1:20-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20°C or -80°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 Lane 1: L02 whole cell lysate, Lane 2: K562 whole cell lysate, Lane 3: HeLa whole cell lysate, Lane 4: Raji whole cell lysate and Lane 5: A549 whole cell lysate with ACLY recombinant monoclonal antibody, clone 3A5 (Cat # RAB04398).

- Immunofluorescence

Immunofluorescent staining of HepG2 cells with ACLY recombinant monoclonal antibody, clone 3A5 (Cat # RAB04398) (diluted at 1:50). The secondary antibody was Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of HeLa cells with ACLY recombinant monoclonal antibody, clone 3A5 (Cat # RAB04398) (diluted at 1:50; purple line) and negative control (green line).

Gene Info — ACLY

Entrez GeneID [47](#)

Protein Accession# [P53396](#)

Gene Name ACLY

Gene Alias ACL, ATPCL, CLATP

Gene Description ATP citrate lyase

Omim ID [108728](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

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](#)