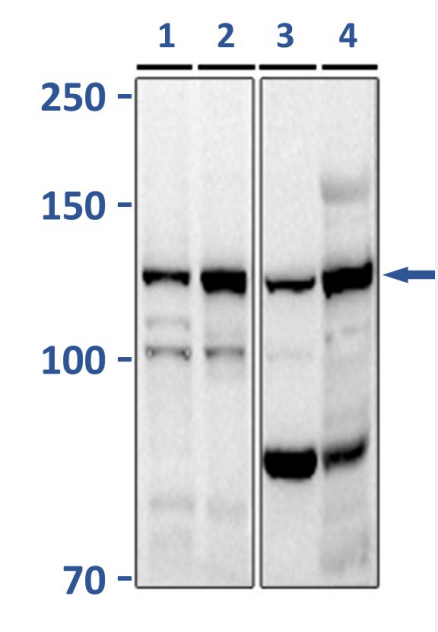
RecomAb™

ATP-Citrate Lyase recombinant monoclonal antibody

Catalog # RAB02401 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts of Lane1:Jurkat cell, Lane2:HeLa cell, Lane3:Rat lung cell, Lane4:Rat liver cell with ATP-Citrate Lyase recombinant monoclonal antibody (Cat # RAB02401).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of paraffin-embedded human breast cancer using ATP-Citrate Lyase recombinant monoclonal antibody (Cat # RAB02401) at dilution of 1:150 .Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against recombinant ATP-Citrate Lyase.
Antibody Species	Rabbit

Theoretical MW (kDa)	120
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of ATP-Citrate Lyase and does not cross-react with related proteins.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Flow Cytometry(1:50-1:100) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:1000-1:2000)
Storage Buffer	In PBS, pH 7.2 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Immunofluorescence

- Flow Cytometry

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 cholesterogenesis. 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