

ACLY Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6784a**Specification**

ACLY Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P53396](#)

ACLY Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 47

Other Names

ATP-citrate synthase, ATP-citrate (pro-S-)-lyase, ACL, Citrate cleavage enzyme, ACLY

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6784a](/products/AP6784a) was selected from the N-term region of human ACLY. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ACLY Antibody (N-term) Blocking Peptide - Protein Information

Name ACLY

Function

Catalyzes the cleavage of citrate into oxaloacetate and acetyl-CoA, the latter serving as common substrate for de novo cholesterol and fatty acid synthesis.

Cellular Location

Cytoplasm, cytosol.

ACLY Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ACLY Antibody (N-term) Blocking Peptide - Images

ACLY Antibody (N-term) Blocking Peptide - 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.

ACLY Antibody (N-term) Blocking Peptide - References

Wellen,K.E., et.al., Science 324 (5930), 1076-1080 (2009)