

Anti-ATP citrate lyase Picoband Antibody
Catalog # ABO11642**Specification**

Anti-ATP citrate lyase Picoband Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC |
| Primary Accession | P53396 |
| Host | Rabbit |
| Reactivity | Human, Rat |
| Clonality | Polyclonal |
| Format | Lyophilized |

Description

Rabbit IgG polyclonal antibody for ATP-citrate synthase(ACLY) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ATP citrate lyase Picoband Antibody - Additional Information**Gene ID 47****Other Names**

ATP-citrate synthase, 2.3.3.8, ATP-citrate (pro-S-)-lyase, ACL, Citrate cleavage enzyme, ACLY

Calculated MW

120839 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Cytoplasm.

Protein Name

ATP-citrate synthase

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E. coli-derived human ATP citrate lyase recombinant protein (Position: M1-I180). Human ATP citrate lyase shares 95% amino acid (aa) sequence identity with both mouse and rat ATP citrate lyase.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-ATP citrate lyase Picoband Antibody - 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.

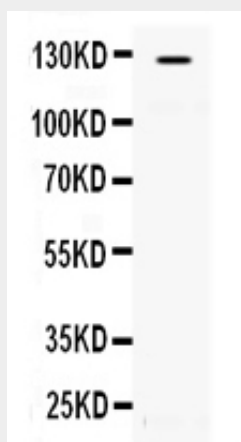
Cellular Location

Cytoplasm, cytosol.

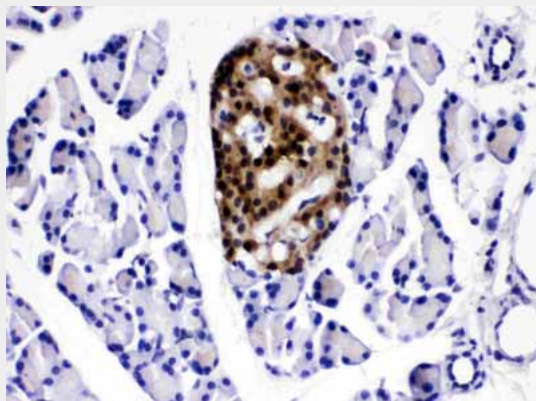
Anti-ATP citrate lyase Picoband Antibody - Protocols

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

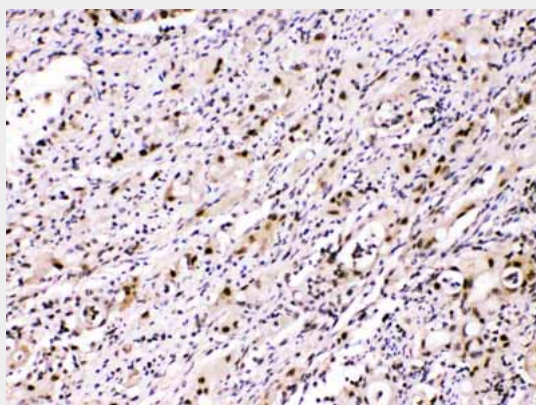
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ATP citrate lyase Picoband Antibody - Images

Western blot analysis of ATP citrate lyase expression in MCF-7 whole cell lysates (lane 1). ATP citrate lyase at 127KD was detected using rabbit anti- ATP citrate lyase Antigen Affinity purified polyclonal antibody (Catalog # ABO11642) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



ATP citrate lyase was detected in paraffin-embedded sections of rat pancreas tissues using rabbit anti- ATP citrate lyase Antigen Affinity purified polyclonal antibody (Catalog # ABO11642) at 1 µg/mL. The immunohistochemical section was developed using SABC method .



ATP citrate lyase was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- ATP citrate lyase Antigen Affinity purified polyclonal antibody (Catalog # ABO11642) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

Anti-ATP citrate lyase Picoband Antibody - Background

ATP citrate lyase, also known as ACLY, is an enzyme that in animals represents an important step in fatty acid biosynthesis. ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer of apparently identical subunits. The product, acetyl-CoA, in animals serves several important biosynthetic pathways, including lipogenesis and cholesterologenesis. It is activated by insulin. In nervous tissue, ATP citrate-lyase may be involved in the biosynthesis of acetylcholine. In plants, ATP citrate lyase generates the acetyl-CoA for cytosolically-synthesized metabolites.