10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-ATP citrate lyase Picoband Antibody

Catalog # ABO11642

Specification

Anti-ATP citrate lyase Picoband Antibody - Product Information

Application	**WB, IHC-P**
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 r˚Constitution, 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 in multiple biochemical reactions in protein, carbohydrate and lipid metabolism.

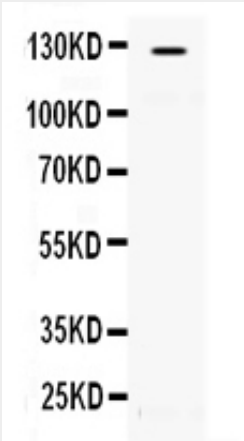
Cellular Location
Cytoplasm, cytosol.

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 Cytomety
- 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 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .

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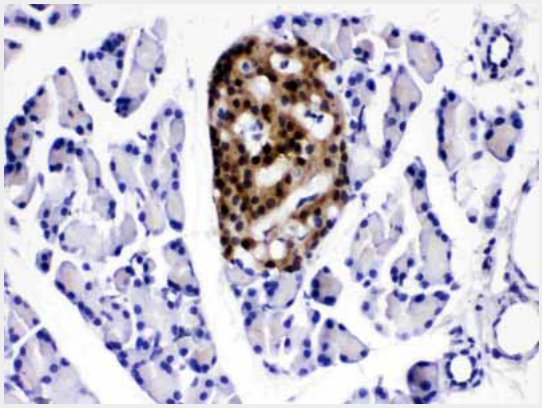
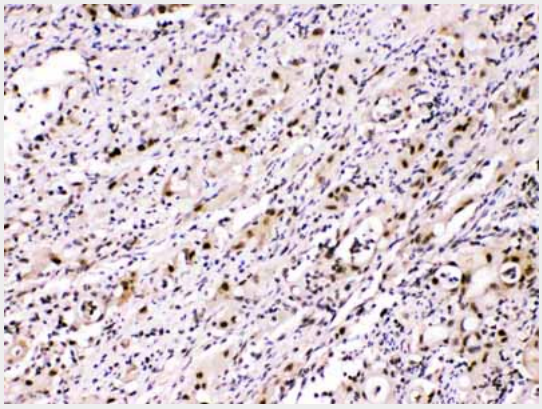


ATP citrate lyase was detected in paraffin-embedded sections of rat pancreas tissues using rabbit anti- ATP citrate lyase Antigen Affinity purified polyclonal antibody (Catalog # ABO11642) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .



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 ??g/mL. The immunohistochemical section was developed using SABC method .

Anti-ATP citrate lyase Picoband Antibody - Background

ATP citrate lyase, aslo 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 cholesterogenesis. 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.