

Anti-ATP citrate lyase Picoband Antibody

Catalog # ABO11642

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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Cytoplasm.
Source	Eukaryota
Protein Name	ATP-citrate synthase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

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.

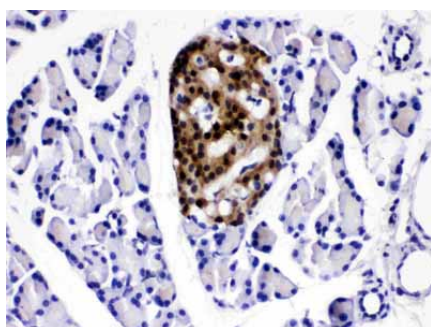
Background

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.

Images

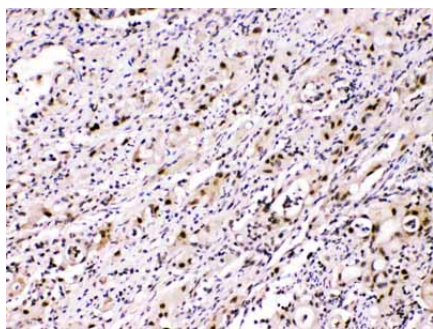


Western blot analysis of ATP citrate lyase expression in MCF-7 whole cell lysates (lane 1). ATP citrate lyase at 127KD was detected using rabbit anti- ATP citrate lyase Antigen Affinity purified polyclonal antibody (Catalog # ABO11642) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL)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



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