

## ATP-citrate synthase rabbit pAb

**Cat#: orb764607 (Manual)**

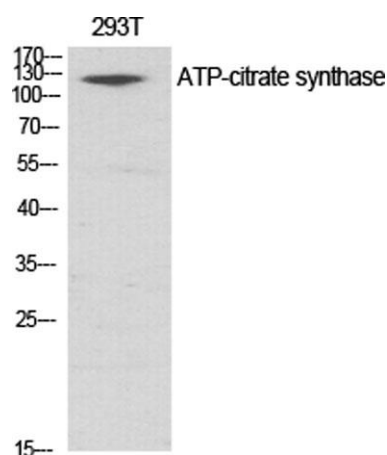
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<b>Product Name</b>	ATP-citrate synthase rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat;Monkey
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ATP-Citrate Lyase. AA range:420-469
<b>Specificity</b>	ATP-citrate synthase Polyclonal Antibody detects endogenous levels of ATP-citrate synthase protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	ATP-citrate synthase
<b>Gene Name</b>	ACLY
<b>Cellular localization</b>	Cytoplasm, cytosol .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

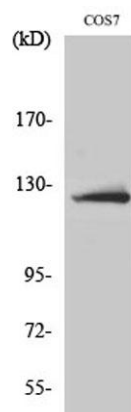
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	120kD
<b>Human Gene ID</b>	47
<b>Human Swiss-Prot Number</b>	P53396
<b>Alternative Names</b>	ACLY; ATP-citrate synthase; ATP-citrate; pro-S-)-lyase; ACL; Citrate cleavage enzyme

### Background

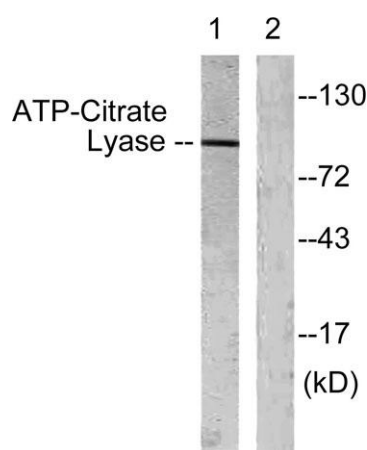
ATP citrate lyase(ACLY) Homo sapiens ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer (relative molecular weight approximately 440,000) of apparently identical subunits. It catalyzes the formation of acetyl-CoA and 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. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Dec 2014],



**Western Blot analysis of various cells using ATP-citrate synthase Polyclonal Antibody diluted at 1:1000**



**Western Blot analysis of COS7 cells using ATP-citrate synthase Polyclonal Antibody diluted at 1:1000**



**Western blot analysis of lysates from COS7 cells, treated with Calyculin 50nM 30', using ATP-Citrate Lyase Antibody. The lane on the right is blocked with the synthesized peptide.**