

DNAxPAb

Hard-to-Find
Antibody

ACLY DNAxPab

Catalog # H00000047-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human ACLY DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPDQLIKRR GKLGVLGVNLTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFVPHSQAEEFVVCYATREGDY VLFHHEGGVDVGDVDAKAQKLLVGVDEKLN PEDIKKHL LVHAPEDKKEILASFISGLFNFYEDLYF TYLEINPLVVT KDGVYVLDLAAKV DATADYICKVKWGDIEFPPPF GREAYPEEAYIADLDAKSGASL KLTLNPKGRWMTMVAGGGASVVYSDTICDLGGVNELANYGEYSGAPSEQQTYDYAKTILSLMTRE KHPDGKILIGGSIANFTNVAATFKGMVRAIRDYQG PLKEHEVTIFVRRGGPNYQEGLRVMGEVGKTT GIPIHVFGTETHMTAIVGMALGHRPIPNQPPTAAHTANFLLNASGSTSTPAPSRTASFSESRADEVA PAKKAKPAMPQDSVPSRSLQGKSTTLFSRHTKAMWGMQTRAVQGMLDFDYVCSRDEPSVAA MVYPFTGDHKQKFYWG HKEILIPVFKNMADAMRKHPEVDVLINFASLRSAYDSTMETMNYAQIRTI AIAEGIPEALTRKLIK KADQKGVTIGPATVGGIKPGCFKIGNTGGMLDNILASKLYRPGSVAYVSRSG GMSNELNNISRTTDGVYEGVAIGGDRYPGSTFMDHVLRYQDTPGVKMIVLGEIGGTEEYKICRGIK EGR LTKPVCWCIGTCATMFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPRSFDELGEII QSVYEDLVANGVIVPAQEVPPPTVPM DYSWARELG LIRKPASFMTSICDERGQELIYAGMPITEVF KEEMGIGGVLG LLWFQKRLPKYSCQFIEMCLMVTADHGP AVSGAHNTIICARAGKDLVSSLTSGLL TIGDRFGGALDAAAKMF SKAFDSGIIPMEFVNKMKKEGKLIMGIGHRVKSINNPDMRVQILKDYVRQ HFPATPLLDYALEVEKITTSKKPNLILNVDGLIGVAFVDM LRNCGSFTREEADEYIDIGALNGIFVLGR SMGFIGHYLDQKRLKQGLYRHPWDDISYVLPEHMSM
Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

Gene Info — ACLY

Entrez GeneID	47
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GeneBank Accession#	NM_001096.2
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Protein Accession#	NP_001087.2
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Gene Name	ACLY
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Gene Alias	ACL, ATPCL, CLATP
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Gene Description	ATP citrate lyase
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Omim ID	108728
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Gene Ontology	Hyperlink
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Gene Summary	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. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]
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Other Designations	OTTHUMP00000164773
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Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)

- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Metabolic pathways](#)
- [Reductive carboxylate cycle \(CO₂ fixation\)](#)

Disease

- [Schizophrenia](#)
- [Weight Gain](#)