

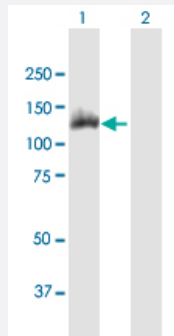
MaxPab®

ACLY purified MaxPab mouse polyclonal antibody (B02P)

Catalog # H00000047-B02P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of ACLY expression in transfected 293T cell line ([H00000047-T03](#)) by ACLY MaxPab polyclonal antibody.

Lane 1: ACLY transfected lysate(120.8 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human ACLY protein.

Immunogen

ACLY (NP_001087.2, 1 a.a. ~ 1101 a.a) full-length human protein.

Sequence

MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPDQLIKRR
GKLGVLGVNLTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFVPHSQAEFVYCIYATREGDY
VLFHHEGGVDVGDVDAKAQKLLVGVDEKLN PEDIKHLLVHAPEDKKEILASFISGLFNFYEDLYF
TYLEINPLVVT KDGVYVLDLAAKV DATADYICKVKWGDIEFP PPGREAYPEEAYADLDAKSGASL
KLTLNPKGRWMTMVAGGGASVVYSD TICDLGGVNELANYGEYSGAPSEQQTYDYAKTILSLMTRE
KHPDGKILIGGSIANFTNVAATFKGMVRAIRDYQGPLKEHEVTIFVRRGGPNYQEGLRVMGEV GKTT
GIPIHVFGTETHMTAIVGMALGHRPIPNQPPTAAHTANFLLNASGSTSTPAPSRTASFSESRADEVA
PAKKAKPAMPQDSVPSRSLQGKSTTLFSRHTKAVWGMQTRAVQGMLDFDYVCSRDEPSVAA
MVYPFTGDHKQKFYWGHKEILIPVFKNMADAMRKHPEVDVLINFASLSAYDSTMETMNYAQIRTI
AIAEGIPEALTRKLIKADQKGVTI GPATVGGIKPGCFKIGNTGGM LDNILASKLYRPGSVAYVSRSG
GMSNELNNISRTTDGVYEGVAIGGDRYPGSTFMDHVLRYQDTPGVKMIVLGEIGGTEEYKICRGIK
EGRLTKPIVCWCIGTCATMFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPRSFDELGEII
QSVYEDLVANGVIVPAQEVPPPTVPM DYWARELGLIRKPASFMTSICDERGQELIYAGMPITEVF
KEEMGIGGVLG LLWFQKRLPKYSCQFIEMCLMVTADHGP AVSGAHNTIICARAGKDLVSSLTSGLL
TIGDRFGGALDAAAKMFSKAFDSGIIPMEFVNKMKKEGKLIMIGIHRVKSINNPDMRVQILKDYVRQ
HFPATPLLDYALEVEKITTSKKPNLILNVDGLIGVAFVDM LRNCGSFTREEADEYIDIGALNGIFVLGR
SMGFIGHYLDQKRLKQGLYRHPWDDISYVLPEHMSM

Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (98)
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.

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[Protocol Download](#)

Gene Info — ACLY

Entrez GeneID	47
GeneBank Accession#	NM_001096.2
Protein Accession#	NP_001087.2
Gene Name	ACLY
Gene Alias	ACL, ATPCL, CLATP
Gene Description	ATP citrate lyase
Omim ID	108728
Gene Ontology	Hyperlink

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]

Other Designations

OTTHUMP00000164773

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](#)