

Recombinant human Acetyl Coenzyme A Carboxylase protein ab196428

2 图像

描述

产品名称	重组人Acetyl Coenzyme A Carboxylase蛋白
生物活性	Specific Activity: ≥ 42.5 pmol/min/ μ g. A 25 μ l Acetyl Coenzyme A carboxylase alpha reaction is conducted in a buffer containing 30 mM HEPES (pH 7.4), 2 mM MgCl ₂ , 2 mM potassium citrate, 1 mM DTT, 100 μ M ATP, 12 mM NaHCO ₃ and 20 μ M acetyl-CoA at 30°C for 45 min. ATP reduction is detected.
纯度	≥ 70 % SDS-PAGE. Affinity purified.
表达系统	Baculovirus infected Sf9 cells
Accession	<u>Q13085-4</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MWWSTLMSILRARSFWKWISTQTVRIIRAVRAHFGGIMDEPS PLAQPLEL NQHSRFIIGSVSEDNSEDEISNLVKLDLLEEKEGSLSPASVG SDTLSDLG ISSLQDGLALHIRSSMSGLHLVKQGRDRKKIDSQRDFTVASP AEFVTRFG GNKVIEKVLIANNGIAAVKCMRSIRRWSYEMFRNERAIRFVV MVTPEDLK ANAHEYIKMADHYVPVPGGPNNNNYANVELILDIKRIPVQAV WAGWGHAS ENPKLPELLLNKNGIAFMGPPSQAMWALGDKIASSIVAQTAGI PTLPWSGS GLRVDWQENDFSKRILNVPQELYEKGYVKDVEDDGLQAAEEVG YPVMIKAS EGGGGKIRKVNADDFFPNLFRQVQAEVPGSPIFVMRLAKQS RHLEVQIL ADQYGNAISLFGRDCSVQRRHQKIIIEEAPATIATPAVFEHME QCAVKLAK

MVGYSAGTVEYLYSQDGSFYFLELNPRLQVEHPCTEMVADV
NLPAAQLQ
IAMGIPLYRIKDIRMMYGVSPWGDSPIDFEDSAHVPCPRGHV
IAARITSE
NPDEGFKPSSGTVQELNFRSNKNVWGYFSVAAAGGLHEFADS
QFGHCFSW
GENREEAISNMVVALKELSIRGDFRTTVEYLIKLLLETESFQM
NRIDTGWL
DRLIAEKVQAERPDTMLGVVCGALHVADVSLRNSVSNFLHSL
ERGQVLP
HTLLNTVDVELIYEGVKYVLKVTRQSPNSYVVMNGSCVEVD
VHRLSDGG
LLLSYDGSSTTYMKEEVDYRITIGNKTCVFEKENDPSVMR
SPSAGKLI
QYIVEDGGHVFAGQCYAEIEVMKMVMTLTAVESGCIHYVKRP
GAALDPGC
VLAKMQLDNPSKVQQAELHTGSLPRIQSTALRGEKLRVHFY
VLDNLVNV
MNGYCLPDPFFSSKVKDWVERLMKTLRDPSPLELQDIMTS
VSGRIPP
VEKSIKEMAQYASNITSVLCQFSPSQIANILDSHAATLNRK
SEREVFFM
NTQSIVQLVQRYRSGIRGHMKAVVMDLLRQYLRVETQFQNGH
YDKCVFAL
REENKSDMNTVLNYIFSHAQVTKKNLLVTMLIDQLCGRDPTL
TDELLNIL
TELTQLSKTTNAKVALRARQVLIASHLPSYELRHNQVESIFL
SAIDMYGH
QFCIENLQKLILSETSIFDVLPNFFYHSNQVVRMAALEVYVR
RAYIAYEL
NSVQHRQLKDNTCVVEFQFMLPTSHPNRGNIPTLNRMFSFN
LNHYGMTH
VASVSDVLLDNSFTPPCQRMGMVSFRFFEDFVRIFFDEVGMC
FSDSPPQS
PTFPEAGHTSLYDEDKVRDEPIHILNVAIKTDCDIEDDLA
AMFREFTQ
QNKATLVDHGIRRLTFLVAQKDFRKQVNYEVDRRFHREFPKF
FTFRARDK
FEEDRIYRHLEPALAFQLELNRMRNFDLTAIPCANHKMHLYL
GAAKVEVG
TEVTDYRFFVRAIRHSDLVTKEASFEYLQNEGERLLEAMD
ELEVAFNN
TNVRTDCNHIFLNFVPTVIMDPSKIEESVRSVMRYGSRLWK
LRVLQAEL
KINIRLTPTGKAIPIRLFLTNESGYLDISLYKEVTDSTRTAQ
IMFQAYGD
KQGPHGMLINTPYVTKDLLQSKRFQAQSLGTTYIYDIPEMF
RQSLIKLW
ESMSTQAFPLPSPPLPSDMLTYTELVLDDQQLVHMNRLPGGN
EIGMVAWK
MTFKSPEYPEGRDIIVIGNDITYRIGSFGPQEDLLFLRASEL
ARAEGIPIR

IYVSANSGARIGLAEEIRHMFHVAWVDPEDPYKGYRYLYLTP
 QDYKRVSA
 LNSVHCEHVEDEGESRYKITDIIGKEEGIGPENLRGSGMIAG
 ESSLAYNE
 IITISLVTCAIGIGAYLVRLGQRTIQVENSILITGAGALN
 KVLGREVY
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 VHSSVPLL
 NSKDPIDRIIEFVPTKTPYDPRWMLAGRPHPTQKGGWLSGFF
 DYGSFSEI
 MQPWAQTVVVGRARLGGIPVGVVAVETRTVELSIPADPANLD
 SEAKIIQQ
 AGQVWFPSAFKTYQAIKDFNREGLPLMVFANWRGFSGGMKD
 MYDQVLKF
 GAYIVDGLRECCQPVLVYIPPAELRGGSWVIDSSINPRHM
 EMYADRES
 RGSVLEPEGTVEIKFRRKDLVKTMRRVDPVYIHLAERLGTPE
 LSTAERKE
 LENKLEREEFLIPIYHQVAVQFADLHDTPGRMQEKGVISDI
 LDWKTSRT
 FFYWRRLRLLLEDLVKKKIHNANPELTDGQIQAMLRRWFVEV
 EGTVKAYV
 WDNNKDLAEWLEKQLTEEDGVHSVIEENIKCISRDYVLKQIR
 SLVQANPE
 VAMDSIIHMTQHISPTQRAEVIRILSTMDSPTDYKDDDDKH
 HHHHH

预测分子量	270 kDa including tags
氨基酸	1 to 2383
标签	His-DDDDK tag C-Terminus
额外的序列信息	NM_198834.

技术指标

Our **Abpromise guarantee** covers the use of **ab196428** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE Functional Studies
形式	Liquid

制备和贮存

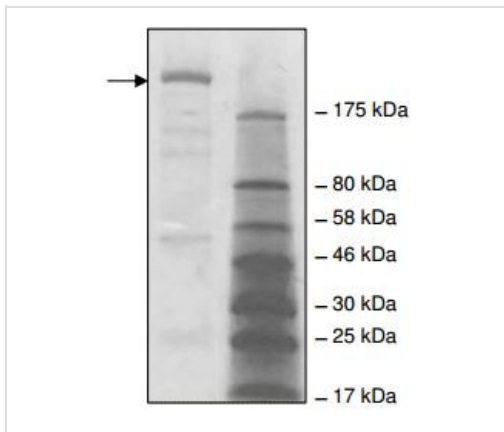
稳定性和存储	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.79% Tris HCl, 2.9% Sodium chloride, 10% Glycerol (glycerin, glycerine), 0.02% (R*,R*)-1,4-Dimercaptobutan-2,3-diol Contains 100 µg/ml DDDDK peptide.
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

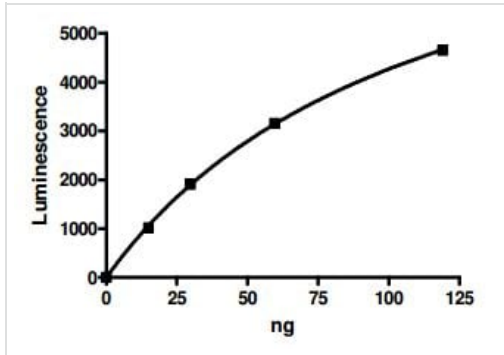
功能	Catalyzes the rate-limiting reaction in the biogenesis of long-chain fatty acids. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase.
组织特异性	Expressed in brain, placental, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver.
通路	Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1.
疾病相关	Acetyl-CoA carboxylase 1 deficiency
序列相似性	Contains 1 ATP-grasp domain. Contains 1 biotin carboxylation domain. Contains 1 biotinyl-binding domain. Contains 1 carboxyltransferase domain.
翻译后修饰	Phosphorylation on Ser-1263 is required for interaction with BRCA1.
细胞定位	Cytoplasm.

图片



4-20% SDS-PAGE analysis of 2 µg ab196428 with Coomassie staining.

SDS-PAGE - Recombinant human Acetyl Coenzyme A Carboxylase protein (ab196428)



Activity assay of ab196428.

Functional Studies - Recombinant human Acetyl
Coenzyme A Carboxylase protein (ab196428)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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