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Data Sheet

ACC1, FLAG-His-tags

Human, recombinant, C-terminal FLAG-His-tags

Catalog #: 50202

Lot #: 170208

Conc.: 0.18 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0. 110 mM NaCl, 2.2 mM KCl, 0.1 mg/mL FLAG peptide and 20% Glycerol

Stability: At least 6 months at -80°C . Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).

References:

1. Sinilnikova, O.M. *et al.*, *Cancer Epidemiol. Biomarkers Prev.* **16 (3)**, 409-415 (2007)
2. Olsen, J.V. *et al.*, *Cell* **127 (3)**, 635-648 (2006)

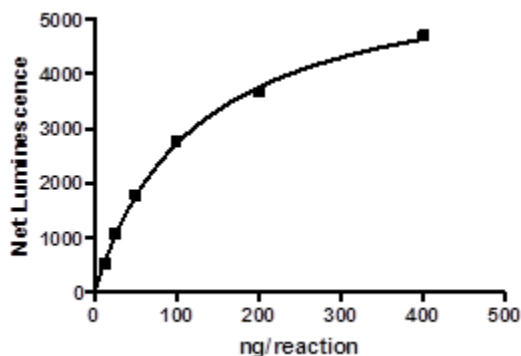
Description: Human ACC1 (acetyl-Coenzyme A carboxylase alpha transcript variant 1) (GenBank Accession No. NM_198834), amino acids 1–2383(end) with C-terminal FLAG and His-tags, MW = 271 kDa, expressed in Baculovirus infected Sf9 cell expression system.

Specific Activity: ≥ 58 pmol/min/ μg . Assay was done using ADP-Glo (Promega) reagents with 20 μM ATP, 20 μM acetyl-CoA and 30 mM NaHCO_3 in 25 μL ACC assay buffer (30 mM HEPES pH=7.4, 2 mM MgCl_2 , 1 mM DTT, and 2 mM Sodium citrate). Reaction was performed at room temperature for 40 min.

Application: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance

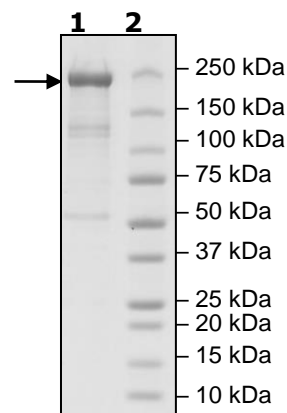
Specific Activity



4-20% SDS-PAGE
Coomassie staining

Lane 1:
2 μg ACC1
Lane 2:
Protein Marker

MW: 271 kDa
Purity: $\geq 67\%$



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Amino Acid Sequence:

MWWSTLMSILRARSFWKWISTQTVRIIRAVRAHFGGIMDEPSPLAQPLELNQHSRFIIGSVSEDNS
 EDEISNLVKLLDLEEKESLSPASVGSDTLSDLGISLQDGLALHIRSSMSGHLHLVKQGRDRKKID
 SQRDFTVASPAEFVTRFGGNKVIEKVLIANNGIAAVKCMRSIRRWSYEMFRNERAIRFVVMVTPED
 LKANA EYIKMADHYVVPVPGGPNNNYANVELILDIAKRIPVQAVWAGWGHASENPKLPELLLNKGI
 AFMGPPSQAMWALGDKIASSIVAQTAGIPTLPWSGSGLRVDWQENDFSKRILNVPQELYEKGYVKD
 VDDGLQAAEEVGYPMVIKASEGGGKIRKVNADDPNLFRQVQAEVPGSPIFVMRLAKQSRHLE
 VQILADQYGN AISLFGRDCSVQRRHQKIEEAPATIATPAVFEHMEQCAVKLAKMVGYSAGTVEY
 LYSQDGSFYFLELNPRLQVEHPCTEMVADVNLPAAQLOIAMGIPLYRIKDIRMMYGVSPWGDSPID
 FEDSAHVPCPRGHVIAARITSENPDGFKPSSGTVQELNFRSNKNVWGYFSVAAAGGLHEFADSQF
 GHCFSWGENREEAISNMVVALKEL SIRGDFRTTVEYLIKLETESFQMNRI DTGWLDRLIAEKVQA
 ERPDTMLGVVCGALHVADVSLRNSVSNFLHSLERGOVLPAAHTLLNTVDVELIYEGVKYVLKVTRQS
 PNSYVVMNGSCVEVDVHRLSDGGLLLSYDGSSYTYMKEEVDRYRITIGNKTCVFEKENDP SVMR
 SPSAGKLIQYIVEDGGHVFAGQCYAEIEVMKMVMTLTAVESGCIHYVKRPGAALDPGCVLAKMQLD
 NPSKVQQAELHTGSLPRIQSTALRGEKLRHVFHYVLDNLVNMNGYCLPDPFFSSKVKDWVERLMK
 TLRDPSLPLELQDIMTSVSGRIPPNVEKSIKKEMAQYASNITSVLCQFSPSQQIANILDSHAATLN
 RKSEREVFFMNTQSIVQLVQRYRSGIRGHMKAVVMDLLRQYLRVETQFQNGHYDKCVFALREENKS
 DMNTVLNYIFSHAQVTKNLLVTMLIDQLCGRDPTLTDELLNITELTQLSKTTNAKVALRARQVL
 IASHLPSYELRHNQVESIFLSAIDMYGHQFCIENLQKLI LSETSIFDVLNPFYHSNQVVRMAALE
 VYVRRAYIAYELNSVQHRQLKDNTCVVEFQFMLPTSHPNRGNIP TLRMSFSSNLNHYGMTHVASV
 SDVLLDNSFTPPCQRMGMVSFRTFEDFVRI FDEVMGCFSDSPPQSPTFPEAGHTSLYDEDKVPDRD
 EPIHILNVAIKTDCDIEDDRLAAMFREFTQQNKATLV DHGIRRLTFLVAQKDFRKQVNYEVDRRFH
 REFPKFFTFRRARDKFEEDRIYRHLEPALAFQLELNRMRNFDLTAIPCANHMHLYLGA AKVEVGTE
 VTDYRFFVRAIIRHSDLVTKEASFEYLQNEGERL LLEAMDELEVAFNNTNVRTDCNHI FLNFVPTV
 IMDPSKIEESVRSVMRYGSRWLKLRVLQAE LKINIRLTPTGKAIPIRLFLTNESSGYLDISLYKE
 VTDSRTAQIMFQAYGDKQGPLHGMLINTPYVT KDLLQSKRFQAQSLGTTYIYDIPEMFRQSLIKLW
 ESMSTQAF LPSPLPSDMLTYTELVLDDQQLVHMNRLPGGNEIGMVAWKMTFKSPEYPEG RDIIV
 IGNDITYRIGSFGPQEDLLFLRASELARAEGIPRIYVSANS GARIGLAE EIRHMFHVAWVDPEDPY
 KGYRYLYLTPQDYKRVSALNSVHCEHVEDEGESRYKITDIIGKEEGIGPENLRGSGMIAGESSLAY
 NEIITISLVT CRAIGIGAYLVRLGQRTIQVENS HLILTGAGALNKVLGREVYTSNNQLGGIQIMHN
 NGVTHCTVCDDFEGVFTVLHWSYMPKSVHSSVPL LNSKDPIDRIIEFVPTKTPYDPRWMLAGRPH
 PTQKGQWLSGFFDYGSFSEIMQPWAQTVVVGRARLGGIPVGVVAVETRTVELSIPADPANLDSEAK
 IIQQAGQVWFPSAFKTYQAIKDFNREGLPLMV FANWRGFGSGMKDMDQVLKFGAYIVDGLRECC
 QPVLVYI PPQAE LRGGSWVIDSSINPRHMEMYADRESRGSVLEPEGTVEIKFRKDLVKTMRRVD
 PVYIHLAERLGTPELSTAERKELENK LKEREEFLIPIYHQVAVQFADLHDT PGRMQEKGVISDILD
 WKTSRTFFYWRRLRRLLEDLVKKKIHNANPELTDGQIQAMLRRWFVEVEGTVKAYVWDNNKD LAEW
 LEKQLTEEDGVHSVIEENIKCISR DYVLKQIRSLVQANPEVAMDSI IHMTQHISPTQRAEVIRILS
 TMDSPST **DYKDDDDKHHHHHH**

Black: ACC1
 Red: FLAG-His-tags

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