

Recombinant human AMPK alpha1 + AMPK beta1 + AMPK gamma1 protein ab79803

[4 References](#) [画像数 2](#)

製品の詳細

製品名	Recombinant human AMPK alpha1 + AMPK beta1 + AMPK gamma1 protein
生理活性	Specific Activity: 2755 nmol/min/mg.
精製度	> 95 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected Sf9 cells
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human

配列

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HHHHHHLVPR GSPEF MRRLSSWRKM ATA EKQKHDG
RVKIGHYILG DTLGVGTFGK VKVGKHELTG
HKVAVKILNR QKIRSLDVVG KIRREIQNLK
LFRHPHIK L YQVISTPSDI FMVMEYVSGG
ELFDYICKNG RLDEKESRRL FQQILSGVDY
CHRHMVVHRD LKPENVLLDA HMNAKIADFG
LSNMMSDGEF LRTSCGSPNY AAPEVISGRL
YAGPEVDIWS SGVILYALLC GTLPFDDDHV
PTLFKKICDG IFYTPQYLN P SVISLLKHML
QVDPMKRATI KDI REHEWFK QDLPKYL FPE
DPSYSSTMID DEALKEVCEK FECSEEEVLS
CLYNRNHQDP LAVAYHLIID NRRIMNEAKD
FYLATSP PDS FLDDHHLTRP HPERVPFLVA
ETPRARHTLD ELNPQKSKHQ GVRKAKWHLG
IRSQSRPNDI MAEVCRAIKQ LDYEWKV VNP
YYLRVRRKNP VTSTYSKMSL QLYQVDSRTY
LLDFRSIDDE ITEAKSGTAT PQRSGSVSNY
RSCQRSDSDA EAQKKSSEVS LTSSVTSLDS
SPVDLTPRPG SHTIEFFEMC ANLIKILAQF
EPSGRPVLHH HHHH MGNTSSERAA LERHGGHKTP
RRDSSGGTKD GDRPKILMDS PEDADLFHSE
EIKAPEKEEF LAWQHDLEVN DKAPAQARPT
VFRWTGGGKE VYLSGSFNNW SKLPLTRSHN
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NFVAILDLP E GEHQYKFFVD GQWTHDPSEP
IVTSQLGTVN NIIQVKKTDF EVFDALMVDS
QKCSDVSELS SSPPGPYHQE PYVCKPEERF
RAPPILP PHL LQVILNKDTG ISCDPALLPE
PNHVMLNHL Y ALSIKDGMV LSATHRYKKK
YVTTLLYKPI FEPSGRPVLH HHHHH METVISSDSS
PAVENEHPQE TPESNNSVYT SFMKSHRCYD
LIPTSSKLVV FDTSLQVKKA FFALVTNGVR
AAPLWDSKKQ SFVVLRALSC PLGMLTITDF
INILHRYYS ALVQIYELEE HKIETWREVV
LQDSFKPLVC ISPNASLFDA VSSLIRNKIH
RLPVIDPESG NTLYILTHKR ILKFLKLFIT
EFPKPEFMSK SLEELQIGTY ANIAMVRTTT
PVYVALGIFV QHRVSALPVV DEKGRVVDIY
SKFDVINLAA EKTYNNLDVS VTKALQHRSH
YFEGVLKCYL HETLETIINR LVEAEVHRLV
VVDENDVVKG IVSLSDILQA LVLTGGEKKP
FEPSGRPVLH HHHHH

タグ His tag C-Terminus

特性

Our **Abpromise guarantee** covers the use of **ab79803** in the following tested applications.

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

アプリケーション Functional Studies
SDS-PAGE

製品の状態 Liquid

備考 **ab204881** (Acetyl Coenzyme A Carboxylase peptide) can be utilized as a substrate for assessing kinase activity

前処理および保存

保存方法および安定性 Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 7

Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

関連性 AMPK (5'-prime-AMP-activated protein) is a heterotrimer of an alpha catalytic subunit, a beta and a gamma non-catalytic regulatory subunits. It belongs to the ser/thr protein kinase family. AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. AMPK is also responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. It regulates

cholesterol synthesis via phosphorylation and inactivation of hydroxymethylglutaryl-CoA reductase and hormone-sensitive lipase.

画像



10% SDS-PAGE, Coomassie staining.

Lane 1: Protein marker.

Lane 2: ab79803

SDS-PAGE - Recombinant human AMPK alpha1 + AMPK beta1 + AMPK gamma1 protein (ab79803)

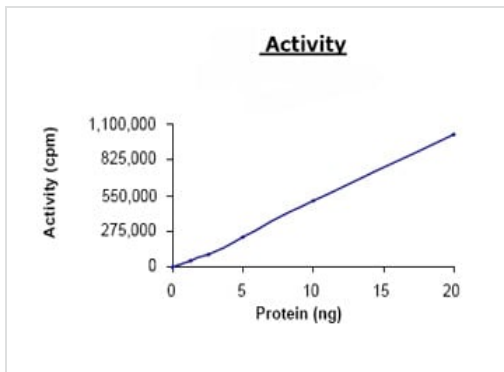


Image showing specific activity of ab79803.

Functional Studies - Recombinant human AMPK alpha1 + AMPK beta1 + AMPK gamma1 protein (ab79803)

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