antibodies

Datasheet for ABIN3134909 C10RF170 Protein (AA 1-807) (His tag)





Overview

Quantity:	1 mg
Target:	C10RF170
Protein Characteristics:	AA 1-807
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This C10RF170 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MDNFQYSVQL SDREWAEFSA TADECGLLQA DLASGDEPLS SDIDQGDSSG SSPPGPPPLF
	TGQLVSQGRG QQSRELEDVA AQQLVSRSQC EPVLALEASH QVAGTSTQSE APLFPSLDSV
	CPGQALSFPG PATCRDKMQR LLQGPAPSSP SKAPHSPESP GHSDNPQSSP DSLEASPRNP
	GRKKRRAVGA KGTKHSGSLD SAATQMSSPQ LTRPKEALMS GTLMAKAQQD KPQPDSTSPE
	QMAREESGLD LSTPILITEQ DQIRKTSRAA LHVVSKPVQE VHPDVPMASP NVSTRASKPQ
	PDVALPKPAS KPQSDIASST HPFTPDVSLS TLAFKCQPNT NQSTPASEPD MALSTPASEP
	DTALSTPASE PDTALSTPAS EPDTALSTPA SRSQLVKAEF ASACTPGLHV DLSAAGSEIK
	PEVSSSMPAA VDVLRTDLPR SVSKTESKES VSIPVKPSLS PISQAEAAMV DTGVSVPPGG
	SIEKPAGQFS AGSSGESCLG PVQAPKKKKV RFSMAIPSHE DSGSGEPTGS PFLTPEQPPV
	PRTAAGSRGG SAAWDAVAVA PRLPQPRILK HLPPPVSSVS AEAESGNCFA VTLPEAYEFF
	FCDTIEEEDE DVEDEEAASQ ALDEVQWPDT CEFFFRDSRA QRSRCQRGHS PVSPPRADTV
	APVPPEGLVP ISIPEVYEHF FTEEGFGHRQ PAATPMQTSE LSREGGLEAS TKPVSPTAEH

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	LSLTVRKAGE LRSPLTSFTF SQNDMCLVFV AFATWAVRTS DLQAPDAWKT VLLANIGTIS
	AIRYFRRQVG RGHSGRPRSS SSSNPSC
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Perm1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered

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Product Details

Grade:

Crystallography grade

Target Details

Target:	C10RF170
Alternative Name:	Perm1 (C10RF170 Products)
Background:	Regulates the expression of selective PPARGC1A/B and ESRRA/B/G target genes with roles in glucose and lipid metabolism, energy transfer, contractile function, muscle mitochondrial biogenesis and oxidative capacity. Required for the efficient induction of MT-CO2, MT-CO3, COX4I1, TFB1M, TFB2M, POLRMT and SIRT3 by PPARGC1A. Positively regulates the PPARGC1A/ESRRG-induced expression of CKMT2, TNNI3 and SLC2A4 and negatively regulates the PPARGC1A/ESRRG-induced expression of PDK4. {ECO:0000269 PubMed:23836911}.
Molecular Weight:	86.1 kDa Including tag.
UniProt:	Q149B8
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

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Handling
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Expiry Date:

Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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