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Datasheet for ABIN3137231

FIP200 Protein (AA 1-1588) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	FIP200 (RB1CC1)
Protein Characteristics:	AA 1-1588
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FIP200 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MKLYVFLVNT GTTLTFDEL TVQTVADLKH AIQSKYKIAI QHQLVVNGG ECMAADRRVC
TYSAGDTNP IFLFNKEMIL CDRAPAIPKA TFSTENDMEI KVEESLMMPA VFHTVASRTQ
LAVEMYDVAK KLCSFCEGLV HDEHLQHGW AAIMANLEDC SNSYQKLLFK FESIYSDYLQ
SIEDIKLKLTL HLGTAHSVMA KIPPLECLTR HSYRECLGRP DSLNEHEGSE KAEMKRSTEL
VLSPDMPRTT NTSLVTSFHK SMEHVAPDPT GTERGKELRE SCQSTVQQEE ASVDAKSDSL
PFFNVSLLDW INVQDRPNDV ESLVRKCFDS MSRLDPKIIQ PFMLECHQTI AKLDNQNMQA
IKGLEDRLYA LDQMIASCSR LVNEQKELAQ GFLANQMRAE NLKDASVLPD LCLSHANQLM
IMLQNHRLKLL DIKQKCTTAK QELANNLHVR LKWCCFVMLH ADQDGEKLQA LLRLVIELLE
RVRIVEALST VPQMYCLAVV EVVRRKMFVK HYREWAGALV KDGKQLYEAE KSKRESFGKL
FRKSFLRNRL FKGLDSWPSS FCTQKPRKFD CELPDISLKD LQFLQSFQPS EVQPFLRVPL
LCDFEPLHQH VLALHNLVKA AQLDEMSQT ITDLLNEQKV STSQASPQSA ASPRIESTTG
ITTTTSPKTP PPLTVQDTLC PAVCPLEELS PDSIDAHTFD FETISHPNTQ QPVHQASIDL

DSLAEPSD FMSAVNEFVI EENLSSPNPI SDPQSPPEMMV ESLYSSVINA IDSRRMQDTS
TRGNEFGDRAALHVVQLEKC RAAQDSSHSS IQTIKDDLCH FRTFVQKEQC DLANYLKCTA
VEIRNIEKV KCSLEITLKE KHQQELQSLK IEYECKLDAL VKDSEENVNK ILKLENLVS
LEEALQNKDN EFTSIKHEKD AIVCVQKEKD QKLLEMEKIM HTQHCEIKEL QQSREMALED
LKKLHDEKIE SLRAEFQCLE QNHLKELEDL LHIRHTQEFE KVMTDHNMSL EKLKKNQQR
IDQMLESHAS TIQEKEQQLQ ELKLVSDLS DMRCKLEVEL ALKEAETDEI KILLEESRTQ
QKEMLKSLLE QETENLRTEI SKLNQKIHDN NESYQVGLSE LRALMTIEKD QCISELISRH
EESNILKAE LDNVTSLHRQ AYEIEKLLKE QIVELQTRLN SELSALEKQK DEKITQEEK
YEALIQNLEK DKERLVKNHE QDKEHLIQEL NFEKNKAVQT ALDEFKVERE LVEKELLEKV
KHLENQIAKT PAFESAREDS SSLVAELQEK LQEEKAKFLE QLEEQEKRKN EEMQNVRTSL
IAEQTNFNT VLTREKMRKE NIINDLSDKL KSTMQQQERD KDLIESLSED RARLLEEKKQ
LEEEVSKLRT SSFLSSAPVA APELYGACA PELPGEPERS VMETADEGRL DSAMETSMMS
VQENMLSEEK QRIMLLERTL QLKEEENKRL NQRLMSQSLS SVSSRHSEKI AIRDFQVGD
VLIILDERHD NYVLFVTSPT LYFLHSESLP ALDLKPGEGA SGASRRPWVL GKVMEKEYCQ
AKKAQNRFKV PLGTFYRVK AVSWNKKV

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 Rb1cc1 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 receipt 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

Product Details

specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expassy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. 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.2. 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
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	FIP200 (RB1CC1)
Alternative Name:	Rb1cc1 (RB1CC1 Products)
Background:	Implicated in the regulation of RB1 expression. Functions as a DNA-binding transcription factor. Is a potent regulator of the RB1 pathway and a novel mediator that plays a crucial role in muscular differentiation. Expression is, thus, a prerequisite for myogenic differentiation. Inhibits PTK2/FAK1 and PTK2B/PYK2 activity and activation of downstream signaling pathways (By similarity). Plays a role as a modulator of TGF-beta-signaling by restricting substrate specificity of rnf111. Involved in autophagy. Regulates early events but also late events of autophagosome formation through direct interaction with Atg16L1. Required for the formation of the autophagosome-like double-membrane structure that surrounds the Salmonella-containing vacuole (SCV) during S.typhimurium infection and subsequent xenophagy. Autophagy positively regulates repair of DNA damage induced by ionizing radiation and negatively regulates apoptosis. Plays an indispensable role in fetal hematopoiesis and in the regulation of neuronal homeostasis. {ECO:0000250, ECO:0000269 PubMed:12095676, ECO:0000269 PubMed:15968549, ECO:0000269 PubMed:19258318, ECO:0000269 PubMed:19940130, ECO:0000269 PubMed:21088496, ECO:0000269 PubMed:21525242, ECO:0000269 PubMed:21795712,

Target Details

ECO:0000269|PubMed:21807966, ECO:0000269|PubMed:23285000,
ECO:0000269|PubMed:23392225}.

Molecular Weight: 183.3 kDa Including tag.

UniProt: [Q9ESK9](#)

Pathways: [Regulation of Cell Size, Autophagy](#)

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 guarantee 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.

Expiry Date: Unlimited (if stored properly)



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