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Datasheet for ABIN3137231

FIP200 Protein (AA 1-1588) (Strep Tag)

Overview

Quantity:	1 mg
Target:	FIP200 (RB1CC1)
Protein Characteristics:	AA 1-1588
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FIP200 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MKLYVFLVNT GTTLTFDEL TVQTVADLKH AIQSKYKIAI QHQLVVNGG ECMAADRRVC TYSAGDTNP IFLFNKEMIL CDRAPAIPKA TFSTENDMEI KVEESLMMPA VFHTVASRTQ LAVEMYDVAK KLCSFCEGLV HDEHLQHQQW AAIMANLEDC SNSYQKLLFK FESIYSDYLQ SIEDIKLKLTL HLGTAVSVMMA KIPILLECLTR HSYRECLGRP DSLNEHEGSE KAEMKRSTEL VLSPDMPRTT NTSLVTSFHK SMEHVAPDPT GTERGKELRE SCQSTVQQEE ASVDAKSDSL PFFNVSLLDW INVQDRPNDV ESLVRKCFDS MSRLDPKIIQ PFMLECHQTI AKLDNQNMKA IKGLEDRLYA LDQMIASCSR LVNEQKELAQ GFLANQMRAE NLKDASVLPD LCLSHANQLM IMLQNHRLKLL DIKQKCTTAK QELANNLHVR LKWCCFVMLH ADQDGEKLQA LLRLVIELLE RVRIVEALST VPQMYCLAVV EVVRRKMKFIK HYREWAGALV KDGKQLYEAE KSKRESFGKL FRKSFLRNRL FKGLDSWPSS FCTQKPRKFD CELPDISLKD LQFLQSFCPS EVQPFLRVPL LCDFEPLHQH VLALHNLVKA AQSLDEMSQT ITDLLNEQKV STSQASPPSA ASPRIESTTG ITTTTSPKTP PPLTVQDTLC PAVCPLEELS PDSIDAHTFD FETISHPNTQ QPVHQASIDL</p>
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DSLAESPESD FMSAVNEFVI EENLSSPNPI SDPQSPPEMMV ESLYSSVINA IDSRRMQDTS
TRGNEFGGDR AALHVQLEKC RAAQDSHSS IQTIKDDLCH FRTFVQKEQC DLANYLKCTA
VEIRNIEKV KCSLEITLKE KHQQELQSLK IEYECKLDAL VKDSEENVNK ILKLENLVS
LEEALQNKDN EFTSIKHEKD AIVCVQKEKD QKLLEMEKIM HTQHCEIKEL KQSREMALED
LKKLHDEKIE SLRAEFQCLE QNHLKELEDL LHIRHTQEFE KVMTDHNMSL EKLKKNQQR
IDQMLESHAS TIQEKEQQLQ ELKLVSDLS DMRCKLEVEL ALKEAETDEI KILLEESRTQ
QKEMLKSLLE QETENLRTEI SKLNQKIHDN NESYQVGLSE LRALMTIEKD QCISELISRH
EEESNILKAE LDNVTSLHRQ AYEIEKKLKE QIVELQTRLN SELSALEKQK DEKITQEEK
YEALIQNLEK DKERLVKNHE QDKEHLIQEL NFEKNKAVQT ALDEFKVERE LVEKELLEKV
KHLENQIAKT PAFESAREDS SSLVAELQEK LQEEKAKFLE QLEEQEKRN EEMQNVRTSL
IAEQQTNFNT VLTREKMRKE NIINDLSDKL KSTMQQQERD KDLIESLSED RARLLEEKKQ
LEEEVSKLRT SSFLSSAPVA AAPELYGACA PELPGEPERS VMETADEGRL DSAMETSMMS
VQENMLSEEK QRIMLLERTL QLKEEENKRL NQRLMSQSLS SVSSRHSEKI AIRDFQVGDL
VLIILDERHD NYVLFTVSPT LYFLHSESLP ALDLKPGEGA SGASRRPWVL GKVMEKEYCQ
AKKAQNRFKV PLGTKFYRVK AVSWNKKV

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-

translational modifications.

- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	FIP200 (RB1CC1)
Alternative Name:	Rb1cc1 (RB1CC1 Products)
Background:	RB1-inducible coiled-coil protein 1 (Coiled-coil-forming protein 1) (FAK family kinase-interacting protein of 200 kDa) (FIP200) (LaXp180),FUNCTION: Involved in autophagy (PubMed:23262492, PubMed:19258318). Regulates early events but also late events of autophagosome formation through direct interaction with Atg16L1 (PubMed:23392225, PubMed:23285000, PubMed:19258318). 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 (PubMed:21525242). Involved in repair of DNA damage

Target Details

caused by ionizing radiation, which subsequently improves cell survival by decreasing apoptosis (PubMed:21807966). Inhibits PTK2/FAK1 and PTK2B/PYK2 kinase activity, affecting their downstream signaling pathways (By similarity). Plays a role as a modulator of TGF-beta-signaling by restricting substrate specificity of RNF111 (PubMed:21795712). Functions as a DNA-binding transcription factor (PubMed:12095676). Is a potent regulator of the RB1 pathway through induction of RB1 expression (PubMed:15968549). Plays a crucial role in muscular differentiation (PubMed:15968549). Plays an indispensable role in fetal hematopoiesis and in the regulation of neuronal homeostasis (PubMed:19940130, PubMed:21088496). {ECO:0000250|UniProtKB:Q8TDY2, 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, ECO:0000269|PubMed:21807966, ECO:0000269|PubMed:23262492, ECO:0000269|PubMed:23285000, ECO:0000269|PubMed:23392225}.

Molecular Weight:	182.4 kDa
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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)