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Datasheet for ABIN3094944

p130 Protein (AA 1-1139) (Strep Tag)

Overview

Quantity:	1 mg
Target:	p130 (RBL2)
Protein Characteristics:	AA 1-1139
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This p130 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MPSGGDQSPP PPPPPAAAA SDEEEEDDGE AEDAAPPAES PTPQIQQRFD ELCSRLNMDE AARAEAWDSY RSMSESYTLE GNDLHWLACA LYVACRKSVP TVSKGTVEGN YVSLTRILKC SEQSLIEFFN KMKKWEDMAN LPPHFRERTE RLERNFTVSA VIFKKYEPF QDIFKYPQEE QPRQQRGRKQ RRQPCTVSEI FHFCWVLFYI AKGNFPMISD DLVNSYHLLL CALDLVYGNA LQCSNRKELV NPNFKGLSED FHAKDSKPSS DPPCIIKLC SLHDGLVLEA KGIKEHFWKP YIRKLYEKKL LKGKEENLTG FLEPGNFGES FKAINKAYEE YVLSVGNLDE RIFLGEDAEE EIGTLRCLN AGSGTETAER VQMKNILQQH FDKSKALRIS TPLTGVRYIK ENSPCVTPVS TATHSLRSLH TMLTGLRNAP SEKLEQILRT CSRDPQTQAIA NRLKEMFEIY SQHFQPDDEF SNCAKEIASK HFRFAEMLYY KVLESVIEQE QKRLGDMDSL GILEQDAFHR SLLACCLEVV TFSYKPPGNF PFITEIFDVP LYHFYKVIEV FIRAEDGLCR EVVKHLNQIE EQILDHLAWK PESPLWEKIR DNENRVPTCE EVMPPQNLER ADEICIAGSP LTPRRVTEVR ADTGGLGRSI TSPTTLYDRY SSPPASTTRR RLFVENDSPS DGGTPGRMPP QPLVNAVVPVQ NVSGETVSVT</p>
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PVPGQTLVTM ATATVTANNG QTVTIPVQGI ANENGGITFF PVQVNVGGQA QAVTGSIQPL
SAQALAGSLS SQQVTGTTLQ VPGQVAIQI SPGGQQQKQG QSVTSSSNRP RKTSSLSLFF
RKVYHLAAVR LRDLCAKLDI SDELRRKIWT CFEFSIIQCP ELMMDRHLAQ LLMCAIYVMA
KVTKEDKSFQ NIMRCYRTQP QARSQVYRSV LIKGKRKRNR SGSSDSRSHQ NSPTLNKDR
TSRDSSPVMR SSSTLPVPQP SSAPPTPTRL TGANSDMEEE ERGDLIQFYN NIYIKQIKTF
AMKYSQANMD APPLSPYPFV RTGSPRRIQL SQNHPVYISP HKNETMLSPR EKIFYFYSNS
PSKRLREINS MIRTGETPTK KRGILLEDGS ESPAKRICPE NHSALLRRLQ DVANDRGSH

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:

Product Details

- 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:	p130 (RBL2)
Alternative Name:	RBL2 (RBL2 Products)
Background:	Retinoblastoma-like protein 2 (130 kDa retinoblastoma-associated protein) (p130) (Retinoblastoma-related protein 2) (RBR-2) (pRb2),FUNCTION: Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. Binds to cyclins A and E. Binds to and may be involved in the transforming capacity of the adenovirus E1A protein. May act as a tumor suppressor.
Molecular Weight:	128.4 kDa
UniProt:	Q08999
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases

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.
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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>
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Restrictions:	For Research Use only
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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)