Datasheet for ABIN3135161

CENPJ Protein (AA 1-1344) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	CENPJ
Protein Characteristics:	AA 1-1344
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CENPJ protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MFLMPTSSEL NSGQNFLTQW MTSPSRAGVI LNRGFPILEA DDKQAATNVS TSFPAKATHF SNSFSISSEE DSFHEEQKLE AGGPYKPWSE NPEAPPVFPS VRKEPIASRQ DAPGCQEDNN NDLTPHLESE FKEVANKNPL FKKLEQLKEI QQKKQEQLKR QQLEQLQRLM EEQEKLLTMV SAQHAFPGTL LPDDQSQKHR SPGDLTLPPH SYSNPTQENS CASNVLPDEQ SNFCRATQDS VLTSKNASDL FYESQYQEAH VKRNDLKEES PAHPSGEGAL PRWEKKMGRS QEGKDVNLQK CGDSSEVVNI DERPIKAAVR EKQQTFEDYL EEQIQLEERE LRQKQLQEAE GPLLAKTKPK QPFLKRGEGL ARFTNAKSKF QKGKESKLAS TQSPSEDQPG SKVDRQHLQR KTALINKDLC AETPTVKKDS KARPKAGFAS LRQKPKVTKT NMRESLSPPG LKVQTGKKRD GQFRHQVKGE RNAHASNKEN VPACIKPWDA GCKMWSKTQG RERLPLSTGP VGCVVSRSPI RETDRETESS LDFSLQKKLE IWEREKEKEN LELDEFLFLE RAADEISFSS NSSFVLRILE RDQQICDGHR LSSTPVKAVQ QREAQQADPR GQSNCSEIPR YGVAHENESE CEAMLLSWGS GSPDGLRELS CKRSMKAFQT STSEIQSQWD ARDDGVANSD SSTESEEQHD ITIKPSTEVG DRVFSNREDS

PQVCDAKGPI RDTGAQEDKW RDADLDLSDK ECSSDESVIV ESLNNKVLEP LRLPSSQAGS KIDFDDERSW TDLEENPYEH GVIHREEAIY GTPQTQCHSK SEGCVLDKTI KRKIAPVKKG EDFKCDRRIS PPPPSDLMVK FFPSLKPKPK LDSHLENESK LNLSQDQPPE FMVCFIGDSV RSQVLREKVT ELESEIEKFK AENTSLAKLR IERESALEKL RKEIADFEQQ KARELARIEE YRKEETRKLQ KERKVFEKYT AAARTFPDKK EREEIQALKQ QIADLQEDLK RKETKWSSTQ SRLRSQIEML VKENTDLREE IKVMERFRLD AWKRAEAMEN SPKACQYMMA TKKDESMNSS FQFQKSHVSS GVQVEKYKKK YLPAQGNLSR RIKSAPPRDL GSSDKGQAAL PREPLQQVNF PDLEYKNKEE KEEEIQGEIS HPDGKVEKIY KNGRRVVLFP NGTRKEVSAD GKSVTVTFFN GDVKQVMPDE RVVYYYAAAQ TTHTTYPEGL EVLHFSSGQI EKHFPDGRKE ITFPDQTIKT LFADGQEESI FPDGTIVRVQ RDGNKIIEFN NGQRELHTAQ FKRREYPDGT VKTVYANGHQ ETKYTSGRVR VKDKDGNVLM DTEM

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

Product Details

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)

Target Details

Target:	CENPJ
Alternative Name:	Cenpj (CENPJ Products)
Background:	Centromere protein J (CENP-J),FUNCTION: Plays an important role in cell division and centrosome function by participating in centriole duplication. Inhibits microtubule nucleation from the centrosome. Involved in the regulation of slow processive growth of centriolar microtubules. Acts as microtubule plus-end tracking protein that stabilizes centriolar microtubules and inhibits microtubule polymerization and extension from the distal ends of centrioles. Required for centriole elongation and for STIL-mediated centriole amplification. Required for the recruitment of CEP295 to the proximal end of new-born centrioles at the centriolar microtubule wall during early S phase in a PLK4-dependent manner. May be involved in the control of centriolar-microtubule growth by acting as a regulator of tubulin release (By similarity). {ECO:0000250|UniProtKB:Q9HC77}.
Molecular Weight:	153.1 kDa

Target Details

UniProt:	Q569L8
Pathways:	M Phase

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:	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!
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)

