Datasheet for ABIN3135075

CEP63 Protein (AA 1-700) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CEP63
Protein Characteristics:	AA 1-700
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEP63 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MEALLEGIQN RGHSGGFLTS CEAELQELMK QIDIMVAHKK SEWEGQTHAL ETCLDIRDRE LKALRSQLDM KHKEVGILHQ QIEEHEKTKQ EMAMEYKEEL LKLQEELSRL KRSYEKLQKK QLREFRGNTK SFREDRSEIE RLTGKIEEFR QKSLDWEKQR LIYQQQVSSL EAQRKALAEQ SEIIQAQLAN RKQKLESVEL SSQSEIQHLN SKLERAKDTI CANELEIERL NIRVNDLMGT NMTILQDHRQ KEEKLRESEK LLEALQEEQK ELKASLQSQE TFILEAKMQE KLQTTLKAVG TQQSVERPLE DCQKERKYSS PGQGVLDNVL SQLDFSHSSE ELLQAEVTRL EGSLESVSAT CKQLSQELME KYEELKRMEG HNNEYRTEIK KLKEQILQAD QTYSSALEGM KMEISQLTRE LHQRDITIAS AKCSSSDMEK QLKAEMQKAE EKAVEHKEIL SQLESLKLEN HRLSETVMKL ELGLHEAKEI SLADLQENYI EALNKLVSEN QQLQKDLMST KSELEHATNM CKKKDGEIFN PAHSRAAGFK NAELKPIHGQ HRHDGIKTEQ YKTGHHSPRG QTLDSIDPVA RGPSPLSSHI SPGSSTVSLP SNFLFEAHSL PSVLDINDVN FSDSLSDCMN DQEEFVSSGS LPTSPLGSIA

	TRFLEEEELR SHHILERLDA HIEELKRESE KTVRQFTALV **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 in one-step affinity chromatography • 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 try to ensure that you receive soluble 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 against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	CEP63
Alternative Name:	Cep63 (CEP63 Products)
Background:	Centrosomal protein of 63 kDa (Cep63),FUNCTION: Required for normal spindle assembly (PubMed:24240477). Plays a key role in mother-centriole-dependent centriole duplication, the function seems also to involve CEP152, CDK5RAP2 and WDR62 through a stepwise assembled complex at the centrosome that recruits CDK2 required for centriole duplication (By similarity). Reported to be required for centrosomal recruitment of CEP152, however, this function has been questioned (By similarity). Also recruits CDK1 to centrosomes (By similarity). Plays a role in DNA damage response (By similarity). Following DNA damage, such as double-strand breaks (DSBs), is removed from centrosomes, this leads to the inactivation of spindle assembly and delay in mitotic progression (By similarity). Promotes stabilization of FXR1 protein by inhibiting FXR1 ubiquitination (By similarity). {ECO:0000250|UniProtKB:Q96MT8, ECO:0000269|PubMed:24240477}.
Molecular Weight:	80.4 kDa
UniProt:	Q3UPP8
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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months