Datasheet for ABIN3137427

AKAP8L Protein (AA 1-642) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	AKAP8L
Protein Characteristics:	AA 1-642
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKAP8L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSYTGFVQGS ETTLQSTYCD TSAQPTCDYG YGTWNSGTNR GYENYGYGYG YGQDNTTNYG YGMATSHSWE MASSDTNANP SASGSASADS VLSRINQRLD MMPHLETDMI QGGVYGSGGG ERYDSYEACD SRAILSERDL YRSSYDYGEL DPEMEMAYEG QYDAYRDQFR MRGGDTFGPR AQGWARDARS GRPMASGYGR MWEDPMGARG QCMPGASRLP SLFSQNIIPE YGMFQGMRGG GAFSGGSRFG FGFGNGMKQM RRTWKTWTTA DFRTKKKKRK QGGSPDEPDS KATRTDCSDN SDSDNDEGTE GEAAEGTESA EAMEKGSRVD GEDEEGKEDG REEGKEDPEK GALTAQDESS QAKRKLQASK KSQDKQKKRQ RDRMVERIQF VCSLCKYRTF YEDEMGSHLD SKFHKEHFKY VGTKLPKQTA DFLQEYVTNK TKKTEELRKT VEDLDGLIQQ IYRDQDLTQE IAMEHFVKKV EAAHCAACDL FIPMQFGIIQ KHLKTMDHNR NRRLMMEQSK KSSLMVARSI LNNKLISKKL ERYLKGENPF TDNPEEEKEQ DEVEAGALDE GAPSEATELT EGVPAQPPVP LEPAPGTTTP PPPPPPEEEE SPVPLLGGAL QCQIRGIPGL DMEDDEEGGG GP

Product Details

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

Product Details

Grade:	custom-made

Target Details

Target:	AKAP8L
Alternative Name:	Akap8l (AKAP8L Products)
Background:	A-kinase anchor protein 8-like (AKAP8-like protein) (Neighbor of A-kinase-anchoring protein 95) (Neighbor of AKAP95),FUNCTION: Could play a role in constitutive transport element (CTE)-mediated gene expression by association with DHX9. Increases CTE-dependent nuclear unspliced mRNA export. Proposed to target PRKACA to the nucleus but does not seem to be implicated in the binding of regulatory subunit II of PKA. May be involved in nuclear envelope breakdown and chromatin condensation. May be involved in anchoring nuclear membranes to chromatin in interphase and in releasing membranes from chromating at mitosis. May regulate the initiation phase of DNA replication when associated with TMPO isoform Beta. Required for cell cycle G2/M transition and histone deacetylation during mitosis. In mitotic cells recruits HDAC3 to the vicinity of chromatin leading to deacetylation and subsequent phosphorylation at 'Ser-10' of histone H3, in this function seems to act redundantly with AKAP8. May be involved in regulation of pre-mRNA splicing (By similarity). {ECO:0000250|UniProtKB:Q9ULX6}.
Molecular Weight:	71.5 kDa
UniProt:	Q9R0L7
Pathways:	SARS-CoV-2 Protein Interactome

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

Application Details

	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