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Datasheet for ABIN3088659

AKAP8L Protein (AA 1-646) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	AKAP8L
Protein Characteristics:	AA 1-646
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKAP8L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MSYTGFVQGS ETTLQSTYSD TSAQPTCDYG YGTWNSGTNR GYEGYGYGYG YGQDNTTNYG YGMATSHSWE MPSSDTNANT SASGSASADS VLSRINQRLD MVPHLETDMM QGGVYGSGGE RYDSYESCDS RAVLSERDLY RSGYDYSELD PEMEMAYEGQ YDAYRDQFRM RGNDTFGPRA QGWARDARSG RPMASGYGRM WEDPMGARGQ CMSGASRLPS LFSQNIIPEY GMFQGMRGGG AFPGGSRFGF GFGNGMKQMR RTWKTWTTAD FRTKKKKRKQ GGSPDEPDSK ATRTDCSDNS DSDNDEGTEG EATEGLEGTE AVEKGSRVDG EDEEGKEDGR EEGKEDPEKG ALTTQDENGQ TKRKLQAGKK SQDKQKKRQR DRMVERIQFV CSLCKYRTFY EDEMASHLDS KFHKEHFKYV GTKLPKQTAD FLQEYVTNKT KKTEELRKTV EDLDGLIQQI YRDQDLTQEI AMEHFVKKVE AAHCAACDLF IPMQFGIIQK HLKTMDHNRN RRLMMEQSKK SSLMVARSIL NNKLISKKLE RYLKGENPFT DSPEEEKEQE EAEGGALDEG AQGEAAGISE GAEGVPAQPP VPPEPAPGAV SPPPPPPEE EEEGAVPLLG GALQRQIRGI PGLDVEDDEE GGGGAP

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 posttranslational 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.

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: AKAP8L

Alternative Name: AKAP8L (AKAP8L Products)

Background: A-kinase anchor protein 8-like (AKAP8-like protein) (Helicase A-binding protein 95) (HAP95)

(Homologous to AKAP95 protein) (HA95) (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 (PubMed:10748171, PubMed:11402034). Proposed to target PRKACA

to the nucleus but does not seem to be implicated in the binding of regulatory subunit II of PKA (PubMed:10761695, PubMed:11884601). 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 (PubMed:11034899). May

regulate the initiation phase of DNA replication when associated with TMPO isoform Beta

(PubMed:12538639). Required for cell cycle G2/M transition and histone deacetylation during

 $\label{eq:mitosis} \mbox{ In mitotic cells recruits HDAC3 to the vicinity of chromatin leading to deacetylation and} \\$

subsequent phosphorylation at 'Ser-10' of histone H3, in this function seems to act redundantly

with AKAP8 (PubMed:16980585). May be involved in regulation of pre-mRNA splicing (PubMed:17594903). {ECO:0000269|PubMed:10748171, ECO:0000269|PubMed:11034899,

ECO:0000269|PubMed:11402034, ECO:0000269|PubMed:11884601,

ECO:0000269|PubMed:12538639, ECO:0000269|PubMed:16980585,

ECO:0000305|PubMed:10761695}., FUNCTION: (Microbial infection) In case of EBV infection, may target PRKACA to EBNA-LP-containing nuclear sites to modulate transcription from specific promoters. {ECO:0000269|PubMed:11884601}., FUNCTION: (Microbial infection) Can synergize with DHX9 to activate the CTE-mediated gene expression of type D retroviruses. {ECO:0000269|PubMed:11402034}., FUNCTION: (Microbial infection) In case of HIV-1 infection,

involved in the DHX9-promoted annealing of host tRNA(Lys3) to viral genomic RNA as a primer

Target Details

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	in reverse transcription, in vitro negatively regulates DHX9 annealing activity. {ECO:0000269 PubMed:25034436}.
Molecular Weight:	71.6 kDa
UniProt:	Q9ULX6
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 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)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process