

Datasheet for ABIN3088255

EPB41 Protein (AA 1-864) (Strep Tag)



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Overviev	

Quantity:	250 μg
Target:	EPB41
Protein Characteristics:	AA 1-864
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPB41 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Brand:	AliCE®
Sequence:	MTTEKSLVTE AENSQHQQKE EGEEAINSGQ QEPQQEESCQ TAAEGDNWCE QKLKASNGDT
	PTHEDLTKNK ERTSESRGLS RLFSSFLKRP KSQVSEEEGK EVESDKEKGE GGQKEIEFGT
	SLDEEIILKA PIAAPEPELK TDPSLDLHSL SSAETQPAQE ELREDPDFEI KEGEGLEECS
	KIEVKEESPQ SKAETELKAS QKPIRKHRNM HCKVSLLDDT VYECVVEKHA KGQDLLKRVC
	EHLNLLEEDY FGLAIWDNAT SKTWLDSAKE IKKQVRGVPW NFTFNVKFYP PDPAQLTEDI
	TRYYLCLQLR QDIVAGRLPC SFATLALLGS YTIQSELGDY DPELHGVDYV SDFKLAPNQT
	KELEEKVMEL HKSYRSMTPA QADLEFLENA KKLSMYGVDL HKAKDLEGVD IILGVCSSGL
	LVYKDKLRIN RFPWPKVLKI SYKRSSFFIK IRPGEQEQYE STIGFKLPSY RAAKKLWKVC
	VEHHTFFRLT STDTIPKSKF LALGSKFRYS GRTQAQTRQA SALIDRPAPH FERTASKRAS
	RSLDGAAAVD SADRSPRPTS APAITQGQVA EGGVLDASAK KTVVPKAQKE TVKAEVKKED
	EPPEQAEPEP TEAWKVEKTH IEVTVPTSNG DQTQKLAEKT EDLIRMRKKK RERLDGENIY

IRHSNLMLED LDKSQEEIKK HHASISELKK NFMESVPEPR PSEWDKRLST HSPFRTLNIN GQIPTGEGPP LVKTQTVTIS DNANAVKSEI PTKDVPIVHT ETKTITYEAA QTDDNSGDLD PGVLLTAQTI TSETPSSTTT TQITKTVKGG ISETRIEKRI VITGDADIDH DQVLVQAIKE AKEQHPDMSV TKVVVHQETE IADE

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 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details	
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).
Grade:	custom-made
Target Details	
Target:	EPB41
Alternative Name:	EPB41 (EPB41 Products)
Background:	Protein 4.1 (P4.1) (4.1R) (Band 4.1) (EPB4.1) (Erythrocyte membrane protein band 4.1),FUNCTION: Protein 4.1 is a major structural element of the erythrocyte membrane skeleton. It plays a key role in regulating membrane physical properties of mechanical stability and deformability by stabilizing spectrin-actin interaction. Recruits DLG1 to membranes. Required for dynein-dynactin complex and NUMA1 recruitment at the mitotic cell cortex during anaphase (PubMed:23870127). {ECO:0000269 PubMed:23870127}.
Molecular Weight:	97.0 kDa
UniProt:	P11171
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!

For Research Use only

Restrictions:

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