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Datasheet for ABIN3092205  
**EPB41L4B Protein (AA 1-900) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	EPB41L4B
Protein Characteristics:	AA 1-900
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPB41L4B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Sequence: MLRFLRRTFG RRSMQRYARG AAGRGAAGLG DERDGGPRGG PAAAASSSAL PAAPGGSVFP  
AGGGPLLTGG AAVHISAAGA AKATLYCRVF LLDGTEVSVD LPKHAKGQDL FDQIVYHLDL  
VETDYFGLQF LDSAQVAHWL DHAKPIKKQM KIGPAYALHF RVKYYSSEPN NLREEFTRYL  
FVLQLRHDL SGKLCOPYET AVELAALCLQ AELGECPELPE HTPELVSEFR FIPNQTEAME  
FDIFQRWKEC RGKSPAQEL SYLNKAKWLE MYGVDMHVVR GRDGCEYSLG LTPTGILIFE  
GANKIGLFFW PKITKMDFKK SKLTLVVVED DDQGREQEHT FVFR LDSART CKHLWKCAVE  
HHAFFRLRTP GNSKSNRSD F IRLGSRFRFS GRTEYQATHG SRLRRTSTFE RKPSKRYPSR  
RHSTFKASNP VIAAQLCSKT NPEVHNYQPQ YHPNIHPSQP RWHPHSPNVS YPLPSPVLSS  
SDRLPFGIEE NGGTPFLTAA SGRHHHQHQH QHQHQHHSNY SLSLTLENKE GPLRSPNSSS  
KSLTKLSPGT PALFSEAAAH LKKLELETVK AAGPWPLHI NINKAEEKKV SEKTLQTPLL  
PSPVADHVKC NILKAQLENA SRVNIQGGKE ESPFVNINKK SSLQDASVRS PIPRVETAQ  
PAVEKPEIKP PRVRKLTRQY SFDEDDLPPD LAEAVGVTTT TTTNTTTAAT QVSVPLPSPK

VQNVSSPHKS EGKGLLSPGA KSPSDRGGAF TLEPGDLLMD FTEATPLAEP ASNPHCAHSR  
CSPPLSLPMK EETGVCMYP PIKTRLIKTF PVDTMNPFPD TFTTGPQFTA DFRDSKLQCC  
PGPTSPLIPA ATLRPLTETV STVQTIYTTR KPVSLAASAE TLRQELEREK MMKRLLMTEL

**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.**

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### 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 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.

## Product Details

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	EPB41L4B
Alternative Name:	EPB41L4B ( <a href="#">EPB41L4B Products</a> )
Background:	Band 4.1-like protein 4B (Erythrocyte membrane protein band 4.1-like 4B) (FERM-containing protein CG1) (Protein EHM2),FUNCTION: Up-regulates the activity of the Rho guanine nucleotide exchange factor ARHGEF18 (By similarity). Involved in the regulation of the circumferential actomyosin belt in epithelial cells (PubMed:22006950). Promotes cellular adhesion, migration and motility in vitro and may play a role in wound healing (PubMed:23664528). May have a role in mediating cytoskeletal changes associated with steroid-induced cell differentiation (PubMed:14521927). {ECO:0000250 UniProtKB:Q9JMC8, ECO:0000269 PubMed:14521927, ECO:0000269 PubMed:22006950, ECO:0000269 PubMed:23664528}.
Molecular Weight:	99.7 kDa
UniProt:	<a href="#">Q9H329</a>

## Application Details

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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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

## Application Details

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Restrictions: For Research Use only

## Handling

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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)