

Datasheet for ABIN7551865  
**EPB41 Protein (AA 1-864) (His tag)**



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## Overview

Quantity:	1 mg
Target:	EPB41
Protein Characteristics:	AA 1-864
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPB41 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant EPB41 Protein expressed in mammalian cells.
Sequence:	<p>MTTEKSLVTE AENSQHQQKE EGEEAINSGQ QEPQQEESCQ TAAEGDNWCE QKLKASNGDT</p> <p>PTHEDLTKNK ERTSESRLS RLFSSFLKRP KSQVSEEEGK EVESDKEKGE GGQKEIEFGT</p> <p>SLDEEILKA PIAAPEPELK TDPSLDLHSL SSAETQPAQE ELREDPDFEI KEGEGLEEC</p> <p>KIEVKEESPQ SKAETELKAS QKPIRKHNRNM HCKVSLDDT VYECVVEKHA KGQDLLKRVC</p> <p>EHLNLLLEEDY FGLAIWDNAT SKTWLDSAKE IKKQVRGVPW NTFNFKFYP PDPAQLTEDI</p> <p>TRYLCLQLR QDIVAGRLPC SFATLALLGS YTIQSELGDY DPETHGVVDYV SDFKLAPNQT</p> <p>KELEEKVMEL HKSYSRSMTPA QADLEFLNA KKLSMYGVDL HKAKDLEGVD IILGVCSSGL</p> <p>LVYKDKLRIN RFPWPKVLKI SYKRSSFFIK IRPGEQEQYE STIGFKLPSY RAAKKLWKVC</p> <p>VEHHTFFRLT STDITPKSKF LALGSKFRYS GRTQAQTRQA SALIDRPAPH FERTASKRAS</p> <p>RSLDGAAAVD SADRSPRPTS APAITQGQVA EGGVLDASAK KTVVPKAQKE TVKAEVKKED</p> <p>EPPEQAEPEP TEAWKVEKTH IEVTVPSTNG DQTQKLAECT EDLIRMRKKK RERLDGENIY</p> <p>IRHSNLMLED LDKSQEEIKK HHASISELKK NFMESVPEPR PSEWDKRLST HSPFRTLIN</p>

GQIPTGEGPP LVKTQTVTIS DNANAVKSEI PTKDVPIVHT ETKTITYEAA QTDDNSGDLDD  
PGVLLTAQTI TSETPSSTTT TQITKTVKGG ISETRIEKRI VITGDADIDH DQVLVQAIKE  
AKEQHPDMSV TKVVVHQETE IADE **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, 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}.

## Target Details

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Molecular Weight: 97.0 kDa

UniProt: [P11171](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months