

Datasheet for ABIN3094584

Plakophilin 4 Protein (PKP4) (AA 1-1192) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Plakophilin 4 (PKP4)
Protein Characteristics:	AA 1-1192
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Plakophilin 4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MPAPEQASLV EEGQPQTRQE AASTGPGMEP ETTATTILAS VKEQELQFQR LTRELEVERQ</p> <p>IVASQLERCR LGAESPSIAS TSSTEKSFPW RSTDVPNTGV SKPRVSDAVQ PNNYLIRTEP</p> <p>EQGTLYSPEQ TSLHESEGLS GNSRSSTQMN SYSDSGYQEA GSFHNSQNVK KADNRQQHSF</p> <p>IGSTNNHVVR NSRAEGQTLV QPSVANRAMR RVSSVPSRAQ SPSYVISTGV SPSRGLRSTS</p> <p>LGSGFGSPSV TDPRLNPSA YSSTTLPAAR AASPYSQRPA SPTAIRRIGS VTSRQTSNPN</p> <p>GPTPQYQTTA RVGSPLTLD AQTRVASPSQ GQVGSSSPKR SGMTAVPQHL GPSLQRTVHD</p> <p>MEQFGQQQYD IYERMVPPRP DSLTGLRSSY ASQHSQLGQD LRSVSPDLH ITPIYEGRTY</p> <p>YSPVYRSPNH GTVELQGSQT ALYRTGSVGI GNLQRTSSQR STLTQYRNNY ALNTTATYAE</p> <p>PYRPIQYRVQ ECYNRLQHA VPADDGTTRS PSIDSIQKDP REFAWRDPEL PEVIHMLQHQ</p> <p>FPSVQANAAA YLQHLCFGDN KVKMEVCRLG GIKHLVDLLD HRVLEVQKNA CGALRNLVFG</p> <p>KSTDENKIAM KNVGGIPALL RLLRKSIDAE VRELVTGVLW NLSSCDAVKM TIIRDALSTL</p>

TNTVIVPHSG WNNSSFDDDH KIKFQTSVLV RNTTGCLRNL SSAGEEARKQ MRSCEGLVDS
LLYVIHTCVN TSDYDSKTVE NCVCTLRNLS YRLELEVPQA RLLGLNELDD LLGKESPSKD
SEPSCWGKKK KKKKRTPQED QWDGVGPIPG LSKSPKGVEM LWHPSVVKPY LTLLAESSNP
ATLEGSAGSL QNLSAGNWKF AAYIRAAVRK EKGLPILVEL LRMDNDRVVS SVATALRNMA
LDVRNKELIG KYAMRDLVNR LPGNGGPSVL SDETMAAICC ALHEVTSKNM ENAKALADSG
GIEKLVNITK GRGDRSSLKV VKAAAQVLNT LWQYRDLRSI YKKDGWNQNH FITPVSTLER
DRFKSHPSLS TTNQQMSPPII QSVGSTSSSP ALLGIRDPRS EYDRTQPPMQ YYNSQGDATH
KGLYPGSSKP SPIYISSYSS PAREQNRRLQ HQQLYYSQDD SNRKNFDAYR LYLQSPHSYE
DPYFDDRHHF PASTDYSTQY GLKSTTNYVD FYSTKRPSYR AEQYPGSPDS WV

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!

Product Details

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).

Grade: custom-made

Target Details

Target: Plakophilin 4 (PKP4)

Alternative Name: PKP4 ([PKP4 Products](#))

Background: Plakophilin-4 (p0071),FUNCTION: Plays a role as a regulator of Rho activity during cytokinesis. May play a role in junctional plaques. {ECO:0000269|PubMed:17115030}.

Molecular Weight: 131.9 kDa

UniProt: [Q99569](#)

Pathways: [Cell-Cell Junction Organization](#)

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.

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Application Details

	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