antibodies

Datasheet for ABIN3093565 PPFIA2 Protein (AA 1-1257) (Strep Tag)





Overview

Quantity:	1 mg
Target:	PPFIA2
Protein Characteristics:	AA 1-1257
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPFIA2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MMCEVMPTIN EDTPMSQRGS QSSGSDSDSH FEQLMVNMLD ERDRLLDTLR ETQESLSLAQ
	QRLQDVIYDR DSLQRQLNSA LPQDIESLTG GLAGSKGADP PEFAALTKEL NACREQLLEK
	EEEISELKAE RNNTRLLLEH LECLVSRHER SLRMTVVKRQ AQSPSGVSSE VEVLKALKSL
	FEHHKALDEK VRERLRVSLE RVSALEEELA AANQEIVALR EQNVHIQRKM ASSEGSTESE
	HLEGMEPGQK VHEKRLSNGS IDSTDETSQI VELQELLEKQ NYEMAQMKER LAALSSRVGE
	VEQEAETARK DLIKTEEMNT KYQRDIREAM AQKEDMEERI TTLEKRYLSA QRESTSIHDM
	NDKLENELAN KEAILRQMEE KNRQLQERLE LAEQKLQQTM RKAETLPEVE AELAQRIAAL
	TKAEERHGNI EERMRHLEGQ LEEKNQELQR ARQREKMNEE HNKRLSDTVD RLLTESNERL
	QLHLKERMAA LEEKNVLIQE SETFRKNLEE SLHDKERLAE EIEKLRSELD QLKMRTGSLI
	EPTIPRTHLD TSAELRYSVG SLVDSQSDYR TTKVIRRPRR GRMGVRRDEP KVKSLGDHEW
	NRTQQIGVLS SHPFESDTEM SDIDDDDRET IFSSMDLLSP SGHSDAQTLA MMLQEQLDAI
	NKEIRLIQEE KESTELRAEE IENRVASVSL EGLNLARVHP GTSITASVTA SSLASSSPPS

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	GHSTPKLTPR SPAREMDRMG VMTLPSDLRK HRRKIAVVEE DGREDKATIK CETSPPPTPR
	ALRMTHTLPS SYHNDARSSL SVSLEPESLG LGSANSSQDS LHKAPKKKGI KSSIGRLFGK
	KEKARLGQLR GFMETEAAAQ ESLGLGKLGT QAEKDRRLKK KHELLEEARR KGLPFAQWDG
	PTVVAWLELW LGMPAWYVAA CRANVKSGAI MSALSDTEIQ REIGISNPLH RLKLRLAIQE
	MVSLTSPSAP PTSRTPSGNV WVTHEEMENL AAPAKTKESE EGSWAQCPVF LQTLAYGDMN
	HEWIGNEWLP SLGLPQYRSY FMECLVDARM LDHLTKKDLR VHLKMVDSFH RTSLQYGIMC
	LKRLNYDRKE LERRREASQH EIKDVLVWSN DRVIRWIQAI GLREYANNIL ESGVHGSLIA
	LDENFDYSSL ALLLQIPTQN TQARQILERE YNNLLALGTE RRLDESDDKN FRRGSTWRRQ
	FPPREVHGIS MMPGSSETLP AGFRLTTTSG QSRKMTTDVA SSRLQRLDNS TVRTYSC
	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
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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!

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	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.
	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.
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:	PPFIA2
Alternative Name:	PPFIA2 (PPFIA2 Products)
Background:	Liprin-alpha-2 (Protein tyrosine phosphatase receptor type f polypeptide-interacting protein
	alpha-2) (PTPRF-interacting protein alpha-2),FUNCTION: Alters PTPRF cellular localization and
	induces PTPRF clustering. May regulate the disassembly of focal adhesions. May localize
	receptor-like tyrosine phosphatases type 2A at specific sites on the plasma membrane,
	possibly regulating their interaction with the extracellular environment and their association
	with substrates. In neuronal cells, is a scaffolding protein in the dendritic spines which acts as
	immobile postsynaptic post able to recruit KIF1A-driven dense core vesicles to dendritic spines
	(PubMed:30021165). {ECO:0000269 PubMed:30021165, ECO:0000269 PubMed:9624153}.
Molecular Weight:	143.3 kDa
UniProt [.]	075334

UniProt:

075334

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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.
Expine Data:	Liplimited (if stored properly)

Expiry Date: Unlimited (if stored properly)



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

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