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Datasheet for ABIN3091231 CD2AP Protein (AA 1-639) (Strep Tag)





Overview

Quantity:	1 mg
Target:	CD2AP (Cd2ap)
Protein Characteristics:	AA 1-639
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD2AP protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	KKDHGKELEK LRKDLEEEKT MRSNLEMEIE KLKKAVLSS
	YSPKPSVYLS TPSSASKANT TAFLTPLEIK AKVETDDVKK NSLDELRAQI IELLCIVEAL
	ASSENLLHLT ANRPKMPGRR LPGRFNGGHS PTHSPEKILK LPKEEDSANL KPSELKKDTC
	PPIAKINGEV SSISSKFETE PVSKLKLDSE QLPLRPKSVD FDSLTVRTSK ETDVVNFDDI
	YFSLKPEEKD EKSTLEQKPS KPAAPQVPPK KPTPPTKASN LLRSSGTVYP KRPEKPVPPP
	KETGEAGWWR GELNGKEGVF PDNFAVQINE LDKDFPKPKK PPPPAKAPAP KPELIAAEKK
	PEKPLILQSL GPKTQSVEIT KTDTEGKIKA KEYCRTLFAY EGTNEDELTF KEGEIIHLIS
	ETVLAGPTSP IPSLGNVSET ASGSVTQPKK IRGIGFGDIF KEGSVKLRTR TSSSETEEKK
	PQNEDELELK VGDIIDINEE VEEGWWSGTL NNKLGLFPSN FVKELEVTDD GETHEAQDDS
	TEFKDDSLPI KRERHGNVAS LVQRISTYGL PAGGIQPHPQ TKNIKKKTKK RQCKVLFEYI
Sequence:	MVDYIVEYDY DAVHDDELTI RVGEIIRNVK KLQEEGWLEG ELNGRRGMFP DNFVKEIKRE

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	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 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.
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

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Application Notes:

Comment:

	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:	CD2AP (Cd2ap)
Alternative Name:	CD2AP (Cd2ap Products)
Background:	CD2-associated protein (Adapter protein CMS) (Cas ligand with multiple SH3
	domains),FUNCTION: Seems to act as an adapter protein between membrane proteins and the
	actin cytoskeleton (PubMed:10339567). In collaboration with CBLC, modulates the rate of RET
	turnover and may act as regulatory checkpoint that limits the potency of GDNF on neuronal
	survival. Controls CBLC function, converting it from an inhibitor to a promoter of RET
	degradation (By similarity). May play a role in receptor clustering and cytoskeletal polarity in the
	junction between T-cell and antigen-presenting cell (By similarity). May anchor the podocyte slit
	diaphragm to the actin cytoskeleton in renal glomerolus. Also required for cytokinesis
	(PubMed:15800069). Plays a role in epithelial cell junctions formation (PubMed:22891260).
	{ECO:0000250 UniProtKB:F1LRS8, ECO:0000250 UniProtKB:Q9JLQ0,
	EC0:0000269 PubMed:10339567, EC0:0000269 PubMed:15800069,
	EC0:0000269 PubMed:22891260}.
Molecular Weight:	71.5 kDa
UniProt:	Q9Y5K6
Application Details	

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guarantee though.

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

ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

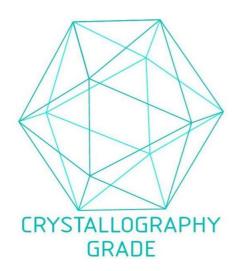
Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

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	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.

Images

Expiry Date:



Unlimited (if stored properly)

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