

Datasheet for ABIN3136579 APPL1 Protein (AA 1-707) (Strep Tag)



Overview

Quantity:	250 µg
Target:	APPL1
Protein Characteristics:	AA 1-707
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This APPL1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MPGIDKLPIE ETLEDSPQTR SLLGVFEEDA TAISNYMNQL YQAMHRIYDA QNELSAATHL
	TSKLLKEYEK QRFPLGGDDE VMSSTLQQFS KVIDELSSCH AVLSTQLADA MMFPISQFKE
	RDLKEILTLK EVFQIASNDH DAAINRYSRL SKKRENDKVK YEVTEDVYTS RKKQHQTMMH
	YFCALNTLQY KKKIALLEPL LGYMQAQISF FKMGSENLNG QLEEFLANIG TSVQNVRREM
	DGDVETMQQT IEDLEVASDP LYLPDPDPTK FPINRNLTRK AGYLNARNKT GLVSSTWDRQ
	FYFTQGGNLM SQARGDVAGG LAMDIDNCSV MAVDCEDRRY CFQITSFDGK KSSILQAESK
	KDHEEWICTI NNISKQIYLS ENPEETAARV NQSALEAVTP SPSFQQRHES LRPGGQSRPP
	TARTSSSGSL GSESTNLAAL SLDSLVAPDT PIQFDIISPV CEDQPGQAKA FGQGGRRTNP
	FGESGGSTKS ETEDSILHQL FIVRFLGSME VKSDDHPDVV YETMRQILAA RAIHNIFRMT
	ESHLLVTCDC LKLIDPQTQV TRLTFPLPCV VLYATHQENK RLFGFVLRTS GGRSESNLSS
	VCYIFESNNE GEKICDSVGL AKQIALHAEL DRRASEKQKE IERVKEKQQK ELSKQKQIEK

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DLEEQSRLIA ASSRPNQAGS EGQLVLSSSQ SEESDLGEEG KKRESEA

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

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 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!

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®).

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Product Details

 Purity:
 > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

 Grade:
 custom-made

Target Details

Target:	APPL1
Alternative Name:	Appl1 (APPL1 Products)
Background:	DCC-interacting protein 13-alpha (Dip13-alpha) (Adapter protein containing PH domain, PTB
	domain and leucine zipper motif 1),FUNCTION: Multifunctional adapter protein that binds to
	various membrane receptors, nuclear factors and signaling proteins to regulate many
	processes, such as cell proliferation, immune response, endosomal trafficking and cell
	metabolism (By similarity) (PubMed:25328665, PubMed:25568335, PubMed:27219021).
	Regulates signaling pathway leading to cell proliferation through interaction with RAB5A and
	subunits of the NuRD/MeCP1 complex (By similarity). Functions as a positive regulator of
	innate immune response via activation of AKT1 signaling pathway by forming a complex with
	APPL1 and PIK3R1 (PubMed:25328665). Inhibits Fc-gamma receptor-mediated phagocytosis
	through PI3K/Akt signaling in macrophages (PubMed:25568335). Regulates TLR4 signaling in
	activated macrophages (PubMed:27219021). Involved in trafficking of the TGFBR1 from the
	endosomes to the nucleus via microtubules in a TRAF6-dependent manner. Plays a role in ce
	metabolism by regulating adiponecting and insulin signaling pathways (By similarity). Require
	for fibroblast migration through HGF cell signaling (PubMed:26445298). Positive regulator of
	beta-catenin/TCF-dependent transcription through direct interaction with RUVBL2/reptin
	resulting in the relief of RUVBL2-mediated repression of beta-catenin/TCF target genes by
	modulating the interactions within the beta-catenin-reptin-HDAC complex (By similarity).
	{EC0:0000250 UniProtKB:Q9UKG1, EC0:0000269 PubMed:25328665,
	EC0:0000269 PubMed:25568335, EC0:0000269 PubMed:26445298,
	ECO:0000269 PubMed:27219021}.
Molecular Weight:	79.3 kDa
UniProt:	Q8K3H0
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studie
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.

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Application Details

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
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	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. 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