Datasheet for ABIN3135582

AGTPBP1 Protein (AA 1-1218) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	AGTPBP1
Protein Characteristics:	AA 1-1218
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGTPBP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSKLKVVGEK SLTNSSRVVG LLAQLEKINT DSTESDTARY VTSKILHLAQ SQEKTRREMT TKGSTGMEVL LSTLENTKDL QTVLNILSIL IELVSSGGGR RASFLVAKGG SQILLQLLMN ASKDSPPHEE VMVQTHSILA KIGPKDKKFG VKARVNGALT VTLNLVKQHF QNYRLVLPCL QLLRVYSTNS VNSVSLGKNG VVELMFKIIG PFSKKNSGLM KVALDTLAAL LKSKTNARRA VDRGYVQVLL TIYVDWHRHD NRHRNMLIRK GILQSLKSVT NIKLGRKAFI DANGMKILYN TSQECLAVRT LDPLVNTSSL IMRKCFPKNR LPLPTIKSSF HFQLPIIPVT GPVAQLYSLP PEVDDVVDES DDNDDIDLEV ENELENEDDL DQSFKNDDIE TDINKLRPQQ VPGRTIEELK MYEHLFPELV DDFQDYELIS KEPKPFVFEG KARGPIVVPT AGEEVPGNSG SVKKGVVMKE RASPKGEEAK EDPKGHDRTL PQQLGGQSRV APSAHSFNND LVKALDRITL QNVPSQVASG LNAGMRKDFG LPLTVLSCTK ACPHVAKCGS TLFEGRTVHL GKLCCTGVET EDDEDTESHS STEQAPSVEA SDGPTLHDPD LYIEIVKNTK SVPEYSEVAY PDYFGHIPPP FKEPILERPY

GVQRTKIAQD IERLIHQNDI IDRVVYDLDN PTYTTPEEGD TLKFNSKFES GNLRKVIQIR KSEYDLILNS DINSNHYHQW FYFEVSGMRP GVAYRFNIIN CEKSNSQFNY GMQPLMYSVQ EALNARPWWI RMGTDICYYK NHFSRSSVAA GGQKGKSYYT ITFTVNFPHK DDVCYFAYHY PYTYSTLQMH LQKLESAHNP QQIYFRKDVL CETLSGNICP LVTITAMPES NYYEHICQFR TRPYIFLSAR VHPGETNASW VMKGTLEYLM SNSPTAQSLR ESYIFKIVPM LNPDGVINGN HRCSLSGEDL NRQWQSPNPE LHPTIYHAKG LLQYLAAVKR LPLVYCDYHG HSRKKNVFMY GCSIKETVWH THDNSASCDI VEDMGYRTLP KILSHIAPAF CMSSCSFVVE KSKESTARVV VWREIGVQRS YTMESTLCGC DQGRYKGLQI GTRELEEMGA KFCVGLLRLK RLTSSLEYNL PSNLLDFEND LIESSCKVTS PTTYVLDEDE PRFLEEVDYS AESNDELDVE LAENTGDYEP SAQEEALSDS EVSRTHLI

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:	AGTPBP1
Alternative Name:	Agtpbp1 (AGTPBP1 Products)
Background:	Cytosolic carboxypeptidase 1 (EC 3.4.17.-) (EC 3.4.17.24) (ATP/GTP-binding protein 1) (Nervous system nuclear protein induced by axotomy protein 1) (Protein deglutamylase CCP1),FUNCTION: Metallocarboxypeptidase that mediates protein deglutamylation of tubulin and non-tubulin target proteins (PubMed:21074048, PubMed:22170066, PubMed:25103237, PubMed:30420557, PubMed:29593216). Catalyzes the removal of polyglutamate side chains present on the gamma-carboxyl group of glutamate residues within the C-terminal tail of alpha- and beta-tubulin (PubMed:22170066, PubMed:25103237, PubMed:30420557). Specifically cleaves tubulin long-side-chains, while it is not able to remove the branching point glutamate (PubMed:21074048). Also catalyzes the removal of polyglutamate residues from the carboxy-terminus of alpha-tubulin as well as non-tubulin proteins such as MYLK (PubMed:21074048, PubMed:22170066). Involved in KLF4 deglutamylation which promotes KLF4 proteasome-mediated degradation, thereby negatively regulating cell pluripotency maintenance and embryogenesis (PubMed:29593216). {ECO:0000269|PubMed:21074048, ECO:0000269|PubMed:22170066, ECO:0000269|PubMed:25103237, ECO:0000269|PubMed:29593216, ECO:0000269|PubMed:30420557}.
Molecular Weight:	137.2 kDa
UniProt:	Q641K1
Pathways:	Proton Transport

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. 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