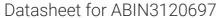
antibodies .- online.com





ABCE1 Protein (AA 1-599) (Strep Tag)



Overview

Quantity:	1 mg
Target:	ABCE1
Protein Characteristics:	AA 1-599
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCE1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MADKLTRIAI VNHDKCKPKK CRQECKKSCP VVRMGKLCIE VTPQSKIAWI SETLCIGCGI
CIKKCPFGAL SIVNLPSNLE KETTHRYCAN AFKLHRLPIP RPGEVLGLVG TNGIGKSTAL
KILAGKQKPN LGKYDDPPDW QEILTYFRGS ELQNYFTKIL EDDLKAIIKP QYVDQIPKAA
KGTVGSILDR KDETKTQAIV CQQLDLTHLK ERNVEDLSGG ELQRFACAVV CIQKADIFMF
DEPSSYLDVK QRLKAAITIR SLINPDRYII VVEHDLSVLD YLSDFICCLY GVPSAYGVVT
MPFSVREGIN IFLDGYVPTE NLRFRDASLV FKVAETANEE EVKKMCMYKY PGMKKKMGEF
ELAIVAGEFT DSEIMVMLGE NGTGKTTFIR MLAGRLKPDE GGEVPVLNVS YKPQKISPKS
TGSVRQLLHE KIRDAYTHPQ FVTDVMKPLQ IENIIDQEVQ TLSGGELQRV ALALCLGKPA
DVYLIDEPSA YLDSEQRLMA ARVVKRFILH AKKTAFVVEH DFIMATYLAD RVIVFDGVPS
KNTVANSPQT LLAGMNKFLS QLEITFRRDP NNYRPRINKL NSIKDVEQKK SGNYFFLDD

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 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 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 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.

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.
≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
ABCE1
Abce1 (ABCE1 Products)
ATP-binding cassette sub-family E member 1 (RNase L inhibitor) (EC 3.6.5) (Ribonuclease 4 inhibitor) (RNS4I),FUNCTION: Nucleoside-triphosphatase (NTPase) involved in ribosome recycling by mediating ribosome disassembly (By similarity). Able to hydrolyze ATP, GTP, UTP and CTP (By similarity). Splits ribosomes into free 60S subunits and tRNA- and mRNA-bound 40S subunits (By similarity). Acts either after canonical termination facilitated by release factors (ETF1/eRF1) or after recognition of stalled and vacant ribosomes by mRNA surveillance factors (PELO/Pelota) (By similarity). Involved in the No-Go Decay (NGD) pathway: recruited to stalled ribosomes by the Pelota-HBS1L complex, and drives the disassembly of stalled ribosomes, followed by degradation of damaged mRNAs as part of the NGD pathway (By similarity). Also plays a role in quality control of translation of mitochondrial outer membrane-localized mRNA (By similarity). As part of the PINK1-regulated signaling, ubiquitinated by CNOT4 upon mitochondria damage, this modification generates polyubiquitin signals that recruit autophagy receptors to the mitochondrial outer membrane and initiate mitophagy (By similarity). RNASEL-specific protein inhibitor which antagonizes the binding of 2-5A (5'-phosphorylated 2',5'-linked oligoadenylates) to RNASEL (PubMed:10866653). Negative regulator of the anti-viral effect of the interferon-regulated 2-5A/RNASEL pathway (By similarity).
67.3 kDa
P61222
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.

Application Details

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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.
Expiry Date:	Unlimited (if stored properly)