antibodies

Datasheet for ABIN3137155 ATP13A1 Protein (AA 1-1200) (Strep Tag)





Overview

Quantity:	1 mg
Target:	ATP13A1
Protein Characteristics:	AA 1-1200
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP13A1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAVVGNAVPC GARPGGARDN GSPQPGSRLR PGLAAGPALI ANGDELVAAV WPYRRLALLR
	RLTVLPFAGL LYPAWLGAAA SGCWGWGSSW TQIPEAALLA LATICLAHAL TVLSGHWSVH
	AHCALTCTPE YDPNKVTFVK VVPTPNNGST ELVALHRDKG EDGLEVLSFE FQKIKYSYDA
	LEKKQFLPVA FPVGNAFSYY QSNRGFQEDS EIRAAEKKFG SNKAEMVVPD FSELFKERAT
	APFFVFQVFC VGLWCLDEYW YYSVFTLSML VAFEASLVQQ QMRNMSEIRK MGNKPHMIQV
	YRSRKWRPVA SDDIVPGDIV SIGRSPQENL VPCDVLLLRG RCIVDEAMLT GESVPQMKEP
	IEDLSPDRVL DLQADARLHV IFGGTKVVQH IPPQKATSGL KPVDNGCVAF VLRTGFNTSQ
	GRLLRTILFG VKRVTANNLE TFIFILFLLV FAIAAAAYVW VEGTKDPSRN RYKLFLECTL
	ILTSVVPPEL PIELSLAVNT SLIALAKLYM YCTEPFRIPF AGKVEVCCFD KTGTLTSDSL
	VVRGVAGLRD GKEVTPVSSI PIETHRALAS CHSLMQLDDG TLVGDPLEKA MLTAVDWTLT
	KDEKVFPRSI KTQGLKIHQR FHFASALKRM SVLASYEKLG STDLCYIAAV KGAPETLHSM
	FSQCPPDYHH IHTEISREGA RVLALGYKEL GHLTHQQARE IKREALECSL KFVGFIVVSC

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	PLKADSKAVI REIQNASHRV VMITGDNPLT ACHVAQELHF IDKAHTLILH PPSEKGQPCE
	WRSIDSSIVL PLTLGSPKAL ALEHALCLTG DGLAHLQAVD PQQLLCLIPH VQVFARVAPK
	QKEFVITSLK ELGYVTLMCG DGTNDVGALK HADVGVALLA NAPERVVERR RRPRDSPVLS
	NSGPRVSRST KQKSALLSPE EPPASHRDRL SQVLRDLEEE STPIVKLGDA SIAAPFTSKL
	SSIQCICHVI KQGRCTLVTT LQMFKILALN ALILAYSQSV LYLEGVKFSD FQATLQGLLL
	AGCFLFISRS KPLKTLSRER PLPNIFNLYT ILTVMLQFSV HFLSLVYLYR EAQARSPEKQ
	EQFVDLYKEF EPSLVNSTVY IMAMAMQMAT FAINYKGPPF MESLPENKPL VWSLAVSLLA
	IIGLLLGSSP DFNSQFGLVD IPVEFKLVIG QVLALDFCLA LLADRVLQFF LGTPKLRVPS
	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 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
	 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®):
	 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:	\ge 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:	ATP13A1
Alternative Name:	Atp13a1 (ATP13A1 Products)
Background:	Endoplasmic reticulum transmembrane helix translocase (EC 7.4.2) (Endoplasmic reticulum
	P5A-ATPase),FUNCTION: Endoplasmic reticulum translocase required to remove mitochondria
	transmembrane proteins mistargeted to the endoplasmic reticulum. Acts as a dislocase that
	mediates the ATP-dependent extraction of mislocalized mitochondrial transmembrane proteins
	from the endoplasmic reticulum membrane. Specifically binds mitochondrial tail-anchored
	transmembrane proteins: has an atypically large substrate-binding pocket that recognizes and
	binds moderately hydrophobic transmembranes with short hydrophilic lumenal domains.
	{EC0:0000250 UniProtKB:Q9HD20}.
Molecular Weight:	132.4 kDa
UniProt:	Q9EPE9

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

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Application Details		
	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.	
Expiry Date:	Unlimited (if stored properly)	



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

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