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ATP2B4 Protein (AA 1-1205) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	ATP2B4
Protein Characteristics:	AA 1-1205
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2B4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MTNPPGQSVS ANTVAESHEG EFGCTLMDLR KLMELRGADA VAQISAHYGG VQEICTRLKT

SPIEGLSGNP ADLEKRRLVF GKNVIPPKRP KTFLELVWEA LQDVTLIILE IAAIISLVLS

FYRPPGGDNE ICGHIASSPE EEEEGETGWI EGAAILASVI IVVLVTAFND WSKEKQFRGL

QSRIELEQKF SIIRNGQLIQ LPVAEIVVGD IAQIKYGDLL PADGILIQGN DLKIDESSLT GESDHVKKTL

DKDPMLLSGT HVMEGSGRMV VTAVGVNSQT GIIFTLLGAS EEEDDDDKKK KGKKQGAPEN

RNKAKTQDGV ALEIQPLNSQ EGLDSEDKEK KIARIPKKEK SVLQGKLTRL AVQIGKAGLI

MSVLTVVILI LYFVVDNFVI QRREWLPECT PVYIQYFVKF FIIGVTVLVV AVPEGLPLAV

TISLAYSVKK MMKDNNLVRH LDACETMGNA TAICSDKTGT LTMNRMTVVQ AYIGGTHYRQ

IPQPDVFPPK VLELIVNGIS INCAYTSKIQ PPEKEGGLPR QVGNKTECGL LGFVTDLKQD

YQAVRNEVPE EKLFKVYTFN SVRKSMSTVI RKPEGGFRMF SKGASEIMLR RCDRILNKEG

EIKSFRSKDR DNMVRNVIEP MASEGLRTIC LAYRDFDGTE PSWDIEGEIL TSLICIAVVG

IEDPVRPEVP DAIAKCKRAG ITVRMVTGDN VNTARAIATK CGILTPKDDF LCLEGKEFNS

LIRNEKGEVE QEKLDKIWPK LRVLARSSPT DKHTLVKGII DSTAGEQRQV VAVTGDGTND GPALKKADVG FAMGIAGTDV AKEASDIILT DDNFTSIVKA VMWGRNVYDS ISKFLQFQLT VNVVAVIVAF TGACITQDSP LKAVQMLWVN LIMDTFASLA LATEPPTESL LRRRPYGRNK PLISRTMMKN ILGHAVYQLL IVFLLVFAGD TLFDIDSGRK APLNSPPSQH YTIVFNTFVL MQLFNEINAR KIHGEKNVFA GVYRNIIFCT VVLGTFFCQI MIVELGGKPF SCTSLTMEQW MWCLFIGIGE LLWGQVISAI PTKSLKFLKE AGHGSDKEDI SRDTEGMDEI DLAEMELRRG QILWVRGLNR IQTQIRVVKL FHNNHEVAHK PKNRSSIHTF MTQPEYPADD ELSQSFLDIQ EGNPELVSKA GTSVLLLDGE AASHDNINNN AVDCHQVQIV ASHSDSPLPS LETPV

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.

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)

Target Details

Target:	ATP2B4
Alternative Name:	Atp2b4 (ATP2B4 Products)
Background:	Plasma membrane calcium-transporting ATPase 4 (PMCA4) (EC 7.2.2.10),FUNCTION: Calcium/calmodulin-regulated and magnesium-dependent enzyme that catalyzes the
	hydrolysis of ATP coupled with the transport of calcium out of the cell (By similarity). By
	regulating sperm cell calcium homeostasis, may play a role in sperm motility
	(PubMed:15078889). {ECO:0000250 UniProtKB:P23634, ECO:0000269 PubMed:15078889}.
Molecular Weight:	133.1 kDa
UniProt:	Q6Q477
Pathways:	Ribonucleoside Biosynthetic Process
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.

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)