

Datasheet for ABIN3089348

ATP2C1 Protein (AA 313-699) (His tag)**3** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ATP2C1
Protein Characteristics:	AA 313-699
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2C1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>MVVTVTLALG VMRMVKKRAI VKKLPIVETL GCCNVICSDK TGTLTKNEMT VTHIFTSDGL H AEVTGVGYNQ FGEVIVDGDV VHGFYNPAVS RIVEAGCVCN DAVIRNNTLM GKPTEGALIA LAMKMGLDGL QQDYIRKAEY PFSSEQKWMA VKCVHRTQQD RPEICFMKGA YEQVIKYCTT YQSKGQTLTL TQQQRDVYQQ EKARMGSAGL RVLALASGPE LGQLTFLGLV GIIDPPRTGV KEAVTTLIAS GVSIMMITGD SQETAVAIAS RLGLYSKTSQ SVSGEEIDAM DVQQLSQIVP KVAVFYRASP RHKMKIIKSL QKNGSVVAMT GDGVN</p> <p>Sequence includes C-terminal His-tag</p>
Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Human PLP1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</p>

Product Details

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	The protein is purified from the cleared cell lysate using His-tag capture materials. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	ATP2C1
Alternative Name:	ATP2C1 (ATP2C1 Products)
Background:	This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of the calcium.
Molecular Weight:	42.7 kDa including tag.
UniProt:	P98194
Pathways:	Transition Metal Ion Homeostasis , 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.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	In solution (30 mM Hepes, pH 8.0, 100 mM NaCl, Laurylsarcosine)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

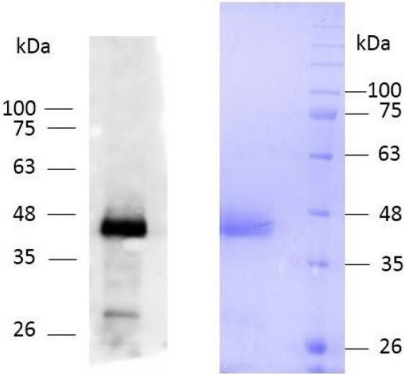
Publications

Product cited in: Chernyavsky, Amber, Agnoletti, Wang, Grando: "Synergy among non-desmoglein antibodies contributes to the immunopathology of desmoglein antibody-negative pemphigus vulgaris." in: **The Journal of biological chemistry**, Vol. 294, Issue 12, pp. 4520-4528, (2019) ([PubMed](#)).

Validation report #104253 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)

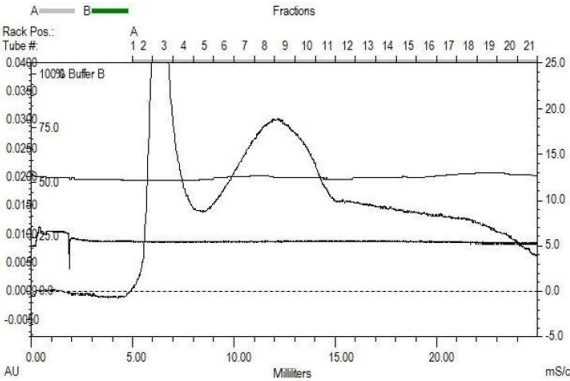


Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



ATPase (AA 313 - 699),
fraction 6 - 11

Image 2.



ATPase (AA 313 - 699), gel filtration
Superdex 200; fraction 6 – 11

Image 3.