



Datasheet for ABIN3124823

AQP11 Protein (AA 1-271) (rho-1D4 tag)



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3 Images

Overview

Quantity:	1 mg
Target:	AQP11
Protein Characteristics:	AA 1-271
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AQP11 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>MSALLGLRPE VQDTCISLGL MLLFVLFVGL ARVIARQQLH RPVVHAFVLE FLATFQLCCC THELQVLSEQ DSAHPTWTLT LIYFFSLVHG LTLVGTASNP CGVMMQMILG GMSPEMGAVR LLAQLVSALC SRYCISALWS LSLTKYHYDE RILACRNPIH TDMSKAIIE AICSFIFHSA LLHFQEVRTK LRIHLLAALI TFLAYAGGSL TGALFNPALA LSLHFPCFDE LFYKFFVYVW LAPSVGVLMM ILMFSFFLPW LHNNQMTNKK EGSSGTETSQ VAPA</p>
Specificity:	C-terminal Rho1D4-tag
Characteristics:	<ul style="list-style-type: none"> Made in Germany - from design to production - by highly experienced protein experts. Mouse Aqp11 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>This made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make</p>

Product Details

you a customized quote in case we can provide this protein in a smaller amount..

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	AQP11
Alternative Name:	Aqp11 (AQP11 Products)
Background:	Aquaporins facilitate the transport of water and small neutral solutes across cell membranes. {ECO:0000250}.
Molecular Weight:	31.7 kDa Including tag.
UniProt:	Q8BHH1

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: Protein has not been tested for activity yet. 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: 25 mM Hepes, pH 6.8; 150 mM NaCl, 2 mM EDTA, 0,01 % LMNG

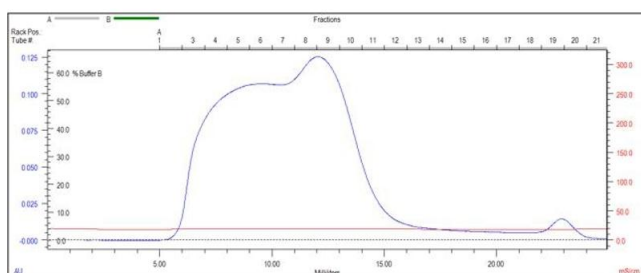
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

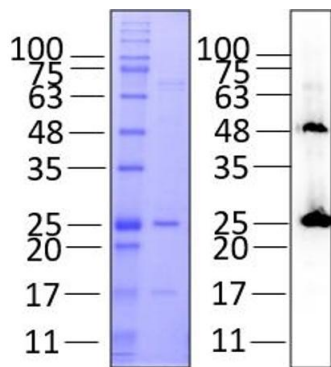
Images



Aquaporin 11 (AQP11)
sp|Q8BHH1|1-271, gel filtration,
Superdex 200 fraction 9-11

Size-exclusion chromatography-High Pressure Liquid
Chromatography

Image 1.



Aquaporin 11 (AQP11)
sp|Q8BHH1|1-271
Fractions 9-11

Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

Western Blotting

Image 3.