# antibodies -online.com





# Aquaporin 1 Protein (AA 2-269) (rho-1D4 tag)



Image



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### Overview

1 mg	
Aquaporin 1 (AQP1)	
AA 2-269	
Mouse	
Insect Cells	
Recombinant	
This Aquaporin 1 protein is labelled with rho-1D4 tag.	
Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	
ASEIKKKLFW RAVVAEFLAM TLFVFISIGS ALGFNYPLER NQTLVQDNVK VSLAFGLSIA	
TLAQSVGHIS GAHLNPAVTL GLLLSCQISI LRAVMYIIAQ CVGAIVATAI LSGITSSLVD	
NSLGRNDLAH GVNSGQGLGI EIIGTLQLVL CVLATTDRRR RDLGGSAPLA IGLSVALGHL	
LAIDYTGCGI NPARSFGSAV LTRNFSNHWI FWVGPFIGGA LAVLIYDFIL APRSSDFTDR	
MKVWTSGQVE EYDLDADDIN SRVEMKPK	
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
special request, please contact us.	
Made in Germany - from design to production - by highly experienced protein experts.	
Mouse Aqp1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to	
ensure crystallization grade.	
<ul><li>ensure crystallization grade.</li><li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul>	

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival 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:

- 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.

Endotoxin Level: Protein is endotoxin-free.

0.22 µm filtered

Grade: Crystallography grade

# **Target Details**

Sterility:

Target: Aquaporin 1 (AQP1)

Alternative Name: Aqp1 (AQP1 Products)

## **Target Details**

Expiry Date:

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Unlimited (if stored properly)



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