

Datasheet for ABIN7552199

AQP2 Protein (AA 1-271) (His tag)



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Overview

Quantity:	1 mg
Target:	AQP2
Protein Characteristics:	AA 1-271
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AQP2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AQP2 Protein expressed in mammalian cells.
Sequence:	MWELRSIAFS RAVFAEFLAT LLFVFFGLGS ALNWPQALPS VLQIAMAFGL GIGTLVQALG HISGAHINPA VTVACLVGCH VSVLRAAFYV AAQLLGAVAG AALLHEITPA DIRGDLAVNA LSNSTTAGQA VTVELFLTLQ LVLCIFASTD ERRGENPGTP ALSIGFSVAL GHLLGIHYTG CSMNPARS LA PAVVTGKFDD HWVFWIGPLV GAILGSLLYN YVLFPPAKSL SERLAVLKGL EPD TDWEERE VRRRQSVELH SPQSLPRGTK A Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
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Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	AQP2
Alternative Name:	AQP2 (AQP2 Products)
Background:	Aquaporin-2 (AQP-2) (ADH water channel) (Aquaporin-CD) (AQP-CD) (Collecting duct water channel protein) (WCH-CD) (Water channel protein for renal collecting duct),FUNCTION: Forms a water-specific channel that provides the plasma membranes of renal collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient (PubMed:8140421, PubMed:7524315, PubMed:7510718, PubMed:15509592). Plays an essential role in renal water homeostasis (PubMed:8140421, PubMed:7524315, PubMed:15509592). {ECO:0000269 PubMed:15509592, ECO:0000269 PubMed:7510718, ECO:0000269 PubMed:7524315, ECO:0000269 PubMed:8140421}.
Molecular Weight:	28.8 kDa
UniProt:	P41181
Pathways:	Response to Water Deprivation

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months