

Datasheet for ABIN7556475 Aquaporin 8 Protein (AQP8) (AA 1-261) (His tag)



Overview

Quantity:	1 mg
Target:	Aquaporin 8 (AQP8)
Protein Characteristics:	AA 1-261
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aquaporin 8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Aqp8 Protein expressed in mammalien cells.
Sequence:	MSGEQTPMCS MDLPEVKVKT SMAGRCRVFW YEQYVQPCIV ELVGSALFIF IGCLSVIENS
	PNTGLLQPAL AHGLALGLII ATLGNISGGH FNPAVSLAVT VIGGLKTMLL IPYWISQLFG
	GLIGAALAKV VSPEERFWNA SGAAFAIVQE QEQVAEALGI EIILTMLLVL AVCMGAVNEK
	TMGPLAPFSI GFSVIVDILA GGSISGACMN PARAFGPAVM AGYWDFHWIY WLGPLLAGLF
	VGLLIRLLIG DEKTRLILKS R 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.
	Protein expressed in mammalien cells and purified in one-step affinity chromatography
	The optimized expression system ensures reliability for intracellular, secreted and

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7556475 | 03/08/2025 | Copyright antibodies-online. All rights reserved.

	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:	Aquaporin 8 (AQP8)
Alternative Name:	Aqp8 (AQP8 Products)
Background:	Aquaporin-8 (AQP-8),FUNCTION: Channel that allows the facilitated permeation of water and
	uncharged molecules, such as hydrogen peroxide and the neutral form of ammonia (NH3),
	through cellular membranes such as plasma membrane, inner mitochondrial membrane and
	endoplasmic reticulum membrane of several tissues (PubMed:27256569, PubMed:9388476,
	PubMed:15647389, PubMed:15948717, PubMed:16624991, PubMed:21117174). The transport
	of ammonia neutral form induces a parallel transport of proton, at alkaline pH when the
	concentration of ammonia is high (By similarity). However, it is unclear whether the transport of
	proton takes place via the aquaporin or via an endogenous pathway (By similarity). Also, may
	transport ammonia analogs such as formamide and methylamine, a transport favourited at
	basic pH due to the increase of unprotonated (neutral) form, which is expected to favor
	diffusion (By similarity). In vitro, may be also permeable to urea but not to glycerol
	(PubMed:9388476). Does not transport urea or glycerol (By similarity). The water transport
	mechanism is mercury- and copper-sensitive and passive in response to osmotic driving forces
	(PubMed:9388476). At the canicular plasma membrane, mediates the osmotic transport of
	water toward the bile canaliculus and facilitates the cAMP-induced bile canalicular water
	secretion, a process involved in bile formation (By similarity). In addition, mediates the hydrogen
	peroxide release from hepatocyte mitochondria that modulates the SREBF2-mediated

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN7556475 | 03/08/2025 | Copyright antibodies-online. All rights reserved.

cholesterol synthesis and facilitates the mitochondrial ammonia uptake which is metabolized
into urea, mainly under glucagon stimulation (By similarity). In B cells, transports the CYBB-
generated hydrogen peroxide from the external leaflet of the plasma membrane to the cytosol
to promote B cell activation and differentiation for signal amplification (PubMed:27256569). In
the small intestine and colon system, mediates water transport through mitochondria and
apical membrane of epithelial cells (By similarity). May play an important role in the adaptive
response of proximal tubule cells to acidosis possibly facilitating mitochondrial ammonia
transport (By similarity). {ECO:0000250 UniProtKB:094778, ECO:0000250 UniProtKB:P56405,
EC0:0000269 PubMed:15647389, EC0:0000269 PubMed:15948717,
EC0:0000269 PubMed:16624991, EC0:0000269 PubMed:21117174,
EC0:0000269 PubMed:27256569, EC0:0000269 PubMed:9388476}.
27.8 kDa
P56404
In addition to the applications listed shows we avait the protein to work for functional studios
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
as well. As the protein has not been tested for functional studies yet we cannot offer a
as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. For Research Use only
as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. For Research Use only Liquid
as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. For Research Use only Liquid The buffer composition is at the discretion of the manufacturer.
as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. For Research Use only Liquid Liquid The buffer composition is at the discretion of the manufacturer. Avoid repeated freeze-thaw cycles.