

Datasheet for ABIN2714852

AQP3 Protein (Myc-DYKDDDDK Tag)**1** Image**1** Publication[Go to Product page](#)

Overview

Quantity:	20 µg
Target:	AQP3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AQP3 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)

Product Details

Characteristics:	<ul style="list-style-type: none">• Recombinant human Aquaporin-3 / AQP3 protein expressed in HEK293 cells.• Produced with end-sequenced ORF clone
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining

Target Details

Target:	AQP3
Alternative Name:	Aquaporin-3 (AQP3 Products)
Background:	<p>This gene encodes the water channel protein aquaporin 3. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein, also known as aquaporin 0.</p> <p>Aquaporin 3 is localized at the basal lateral membranes of collecting duct cells in the kidney. In addition to its water channel function, aquaporin 3 has been found to facilitate the transport of nonionic small solutes such as urea and glycerol, but to a smaller degree. It has been</p>

Target Details

suggested that water channels can be functionally heterogeneous and possess water and solute permeation mechanisms. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.

Molecular Weight: 31.4 kDa

NCBI Accession: [NP_004916](#)

Application Details

Application Notes: Recombinant human proteins can be used for:
Native antigens for optimized antibody production
Positive controls in ELISA and other antibody assays

Comment: The tag is located at the C-terminal.

Restrictions: For Research Use only

Handling

Concentration: 50 µg/mL

Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Publications

Product cited in: Shiryaev, Aleshin, Muranaka, Kukreja, Routenberg, Remacle, Liddington, Cieplak, Kozlov, Strongin: "Structural and functional diversity of metalloproteinases encoded by the Bacteroides fragilis pathogenicity island." in: **The FEBS journal**, Vol. 281, Issue 11, pp. 2487-502, (2014) ([PubMed](#)).

Ge, Siegel, Jordan, Naumann: "Ligand binding alters dimerization and sequestering of urokinase receptors in raft-mimicking lipid mixtures." in: **Biophysical journal**, Vol. 107, Issue 9, pp. 2101-11, (2014) ([PubMed](#)).

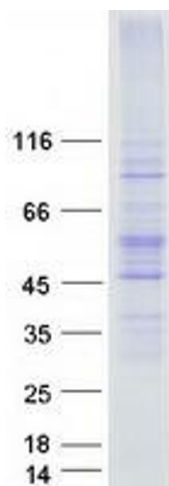
Garcia-Sanz, Quintanilla, Lafita, Moreno-Bueno, García-Gutierrez, Tabor, Varela, Shiio, Larsson, Portillo, Leon: "Sin3b interacts with Myc and decreases Myc levels." in: **The Journal of**

biological chemistry, Vol. 289, Issue 32, pp. 22221-36, (2014) ([PubMed](#)).

Wang, Henry, Distefano, Wang, Räikkönen, Mönkkönen, Tanaka, Morita: "Butyrophilin 3A1 plays an essential role in prenyl pyrophosphate stimulation of human V α 2V β 2 T cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 191, Issue 3, pp. 1029-42, (2013) ([PubMed](#)).

Bardeleben, Sharma, Reeve, Bassilian, Frost, Hoang, Shi, Lichtenstein: "Metabolomics identifies pyrimidine starvation as the mechanism of 5-aminoimidazole-4-carboxamide-1- β -ribose-induced apoptosis in multiple myeloma cells." in: **Molecular cancer therapeutics**, Vol. 12, Issue 7, pp. 1310-21, (2013) ([PubMed](#)).

Images



Western Blotting

Image 1. Validation with Western Blot