

## Product Information

### **MemDX™ Membrane Protein Human AQP3 (Aquaporin 3 (Gill blood group)) expressed in *E.coli* for Antibody Discovery**

Cat. No.: **MP1435J**

This product is for research use only and is not intended for diagnostic use.

This product is a 31.5 kDa Human AQP3 membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### Host Species

Human

##### Target Protein

AQP3

##### Protein Length

Full-length

##### Protein Class

Aquaporin

##### Molecular Weight

31.5 kDa

##### TMD

6

##### Sequence

MGRQKELVSRGEMLHIRYRLLRQALAECLGTLILVMFGCGSVAQVVLSRGTHGGFLTIN  
LAFGFAVTLGILIAGQVSGAHLNPAVTFAMCFLAREPWIKLPIYTLAQTLAGAFLGAGIVF  
GLYYDAIWHFADNQLFVSGPNGTAGIFATYPSGHLDMINGFFDQFIGTASLIVCVLAIVD  
PYNPNVPRGLEAFTVGLVVLVIGTSMGFNSGYAVNPARDFGPRLFTALAGWGSVFTTGQ  
HWWWVPIVSPLLGSIAGVFVYQLMIGCHLEQPPPSNEEENVKLAHVKHKEQI

#### Product Description

##### Expression Systems

*E.coli*

##### Tag

N-His or Tag-Free

##### Form

Lyophilized powder

### Reconstitution

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

### Purity

>85% as determined by SDS-PAGE

### Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### Storage

Store at +4°C for up to one week or several months at -80°C

## Target

### Target Protein

AQP3

### Full Name

Aquaporin 3 (Gill blood group)

### Introduction

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. 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 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.

### Alternative Names

AQP 3; AQP-3; Aqp3; AQP3\_HUMAN; Aquaglyceroporin-3; Aquaporin 3 (GIL blood group); Aquaporin 3 (Gill blood group); Aquaporin-3; Aquaporin3; GIL; Gill blood group; GIL

### Gene ID

[360](#)

### UniProt ID

[Q92482](#)