

# Product Information

## MemDX™ Membrane Protein Mouse Aqp1 (Aquaporin 1) for Antibody Discovery

Cat. No.: **MP1429J**

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

This product is a 28.8 kDa Mouse Aqp1 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

Mouse

#### Target Protein

Aqp1

#### Protein Length

Full-length

#### Protein Class

Aquaporin

#### Molecular Weight

28.8 kDa

#### TMD

6

#### Sequence

MASEIKKKLFWRAVVAEFLAMTLFVFISIGSALGFNYPLERNQTLVQDNVKVSLAFGLSIATLAQSVGHISGAHLNPAVTLGLLLSCQIS

### Product Description

#### Expression Systems

*E.coli*

#### Form

Liquid or 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**

Liquid: Tris/PBS-based buffer, 5%-50% glycerol

Lyophilized powder: 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**

Aqp1

**Full Name**

Aquaporin 1

**Introduction**

Forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.

**Alternative Names**

Aqp1; Aquaporin-1; AQP-1; Aquaporin-CHIP; Delayed early response protein 2; DER2; Water channel protein for red blood cells and kidney proximal tubule; CHIP; CHIP28

**Gene ID**

[11826](#)

**UniProt ID**

[Q02013](#)