

Product Information

MemDX™ Membrane Protein Mouse Aqp4 (Aquaporin 4) for Antibody Discovery

Cat. No.: **MP1436J**

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

This product is a 34.4 kDa Mouse Aqp4 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

Aqp4

Protein Length

Full-length

Protein Class

Aquaporin

Molecular Weight

34.4 kDa

TMD

6

Sequence

MSDGAAARRWGKCGHSCSRESIMVAFKGVWTQAFWKAVSAEFLATLIFVLLGVGSTINWGGSENPLPVDMVLISLCFGLSIATMVQ

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**

Aqp4

Full Name

Aquaporin 4

Introduction

This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. This protein is the predominant aquaporin found in brain and has an important role in brain water homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon.

Alternative Names

Aqp4Aquaporin-4; AQP-4; Mercurial-insensitive water channel; MIWC; WCH4; aqua

Gene ID

[11829](#)

UniProt ID

[P55088](#)