

# Product Information

## MemDX™ Membrane Protein Human AQP2 (Aquaporin 2) for Antibody Discovery

Cat. No.: **MP0054X**

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

This product is a 55.2 kDa Human AQP2 membrane protein expressed in *in vitro* wheat germ expression system. 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

AQP2

#### Protein Length

Full-length

#### Molecular Weight

55.2 kDa

#### TMD

6

#### Sequence

MWELRSIAFSRAVFAEFLATLLFVFFGLGSALNWPQALPSVLQIAMAFGLGIGTLVQALGHISGAHINPAVTVACLVGCHVSVLRAAF

### Product Description

#### Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

#### Expression Systems

*in vitro* wheat germ expression system

#### Tag

GST-tag at N-terminal

#### Form

Liquid

#### Purification

Glutathione Sepharose 4 Fast Flow

**Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

**Storage**

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

**Target****Target Protein**

AQP2

**Full Name**

Aquaporin 2

**Introduction**

This gene encodes a water channel protein located in the kidney collecting tubule. It belongs to the MIP/aquaporin family, some members of which are clustered together on chromosome 12q13. Mutations in this gene have been linked to autosomal dominant and recessive forms of nephrogenic diabetes insipidus

**Alternative Names**

AQP-CD; MGC34501; WCH-CD; aquaporin 2; aquaporin-CD; collecting duct water channel protein; water-channel aquaporin 2

**Gene ID**

[359](#)

**UniProt ID**

[P41181](#)