

## Product Information

### MemDX™ Membrane Protein Human AQP7 (Aquaporin 7 expressed in HEK293T) for

#### Antibody Discovery

Cat. No.: **MP1069J**

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

This product is a 37.1 kDa Human AQP7 membrane protein expressed in HEK293T. 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

AQP7

##### Protein Length

Full-length

##### Protein Class

Druggable Genome, Transmembrane

##### Molecular Weight

37.1 kDa

##### TMD

5

##### Sequence

MVQASGHRRSTRGSKMVSWSVIAKIQEILQRKMVREFLAEFMSTYVMMVFGLGSAHMLNKKYGSYLGV  
NLGFGFGVTMGVHVAGRISGAHMNAAVTFANCALGRVPWRKFPVYVLGQFLGSFLAAATYISLFYTAILH  
FSGGQLMVTGPVATAGIFATYLPDHMTLWRGFLNEAWLTGMLQLCLFAITDQENNPALPGTEALVIGILV  
VIIGVSLGMNTGYAINPSRDLPPRIFTFIAGWGKQVFSNGENWWWVPVAPLLGAYLGGIYLVFIGSTI  
PREPLKLEDSVAYEDHGITVLPKMGSHIPTISPLTPVSVSPANRSSVHPAPPLHESMALEHF

#### Product Description

##### Expression Systems

HEK293T

##### Tag

C-Myc/DDK

##### Form

Liquid

#### **Purification**

Anti-DDK affinity column followed by conventional chromatography steps

#### **Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

#### **Buffer**

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

#### **Storage**

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

### **Target**

#### **Target Protein**

AQP7

#### **Full Name**

Aquaporin 7

#### **Introduction**

This gene encodes a member of the aquaporin family of water-selective membrane channels. The encoded protein localizes to the plasma membrane and allows movement of water, glycerol and urea across cell membranes. This gene is highly expressed in the adipose tissue where the encoded protein facilitates efflux of glycerol. In the proximal straight tubules of kidney, the encoded protein is localized to the apical membrane and prevents excretion of glycerol into urine. The encoded protein is present in spermatids, as well as in the testicular and epididymal spermatozoa suggesting an important role in late spermatogenesis. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. This gene is located adjacent to a related aquaporin gene on chromosome 9. Multiple pseudogenes of this gene have been identified.

#### **Alternative Names**

AQP7L; AQPap; GLYCQTL

#### **Gene ID**

[364](#)

#### **UniProt ID**

[O14520](#)