

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	AQP4-M1
Synonyms	MIWC; WCH4
Description	Human AQP4-M1 full length protein-synthetic nanodisc
Uniprot ID	P55087-1
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	N/A
Molecular Weight	The human full length AQP4-M1 protein has a MW of 34.8 kDa
Delivery	In Stock
Formulation & Reconstitution	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	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. Additional isoforms, resulting from the use of alternative in-frame translation initiation codons, have also been described. Recent studies provided evidence for translational readthrough in this gene, and expression of C-terminally extended isoforms via the use of an alternative in-frame translation termination codon.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate AQP4-M1-Nanodisc 0.2 μ g Human AQP4-M1-Nanodisc per well

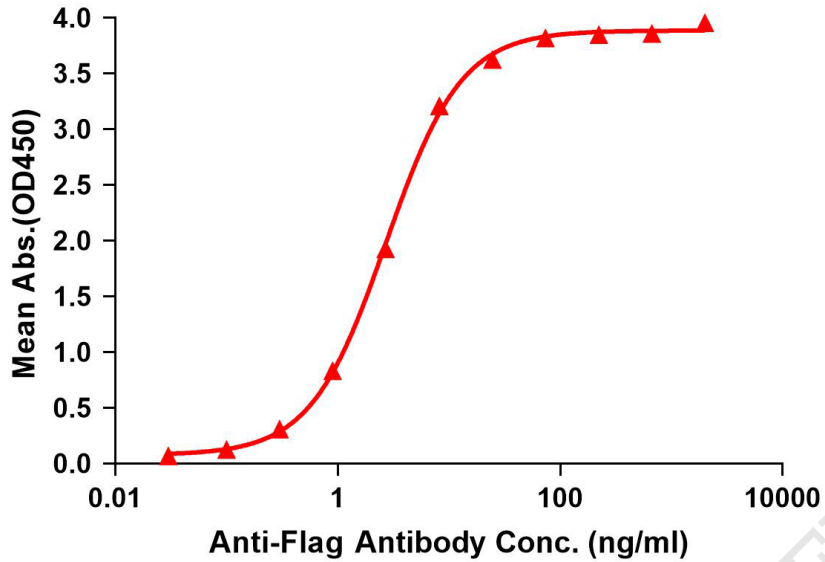


Figure 1. Elisa plates were pre-coated with Flag Tag AQP4-M1-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with AQP4-M1-Nanodisc is 2.722ng/ml.

kDa M R

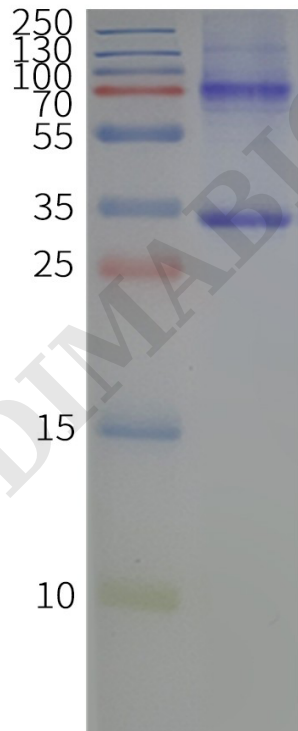


Figure 2. Human AQP4-M1-Nanodisc, Flag Tag on SDS-PAGE

