PRODUCT INFORMATION

Tag	C-Flag Tag
Target	AQP5
Synonyms	AQP-5; PPKB
Description	Human AQP5 full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P55064
Expression Host	HEK293
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	N/A
Molecular Weight	The human full length AQP5 protein has a MW of 28.3 kDa
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.
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	Aquaporin 5 (AQP5) is a water channel protein. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). Aquaporin 5 plays a role in the generation of saliva, tears and pulmonary secretions. AQP0, AQP2, AQP5, and AQP6 are closely related and all map to 12q13.
Usage	Research use only
Conjugate	Unconjugated

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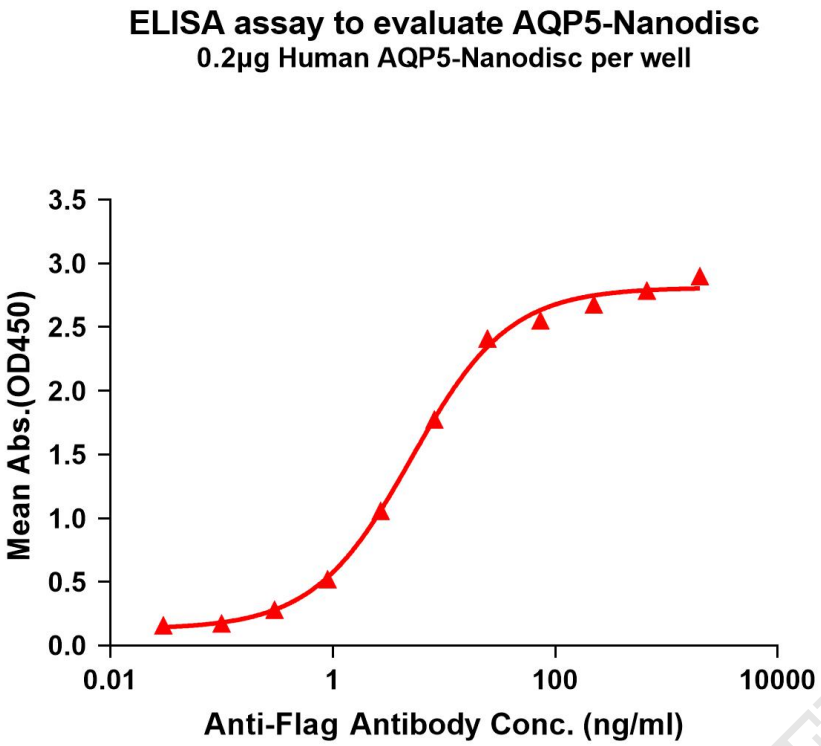

Figure1. Elisa plates were pre-coated with Flag Tag AQP5-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with AQP5-Nanodisc is 5.102ng/ml.

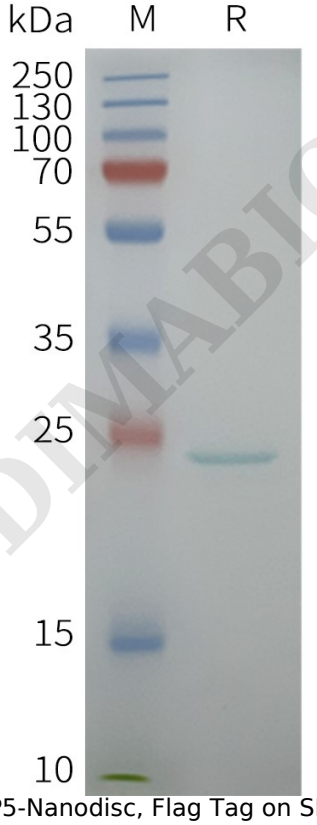

Figure2. Human AQP5-Nanodisc, Flag Tag on SDS-PAGE

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