

PRODUCT INFORMATION

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|------------------------------|---|
| 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 of reconstitution. |
| 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 |



ELISA assay to evaluate AQP5-Nanodisc
0.2μg Human AQP5-Nanodisc per well

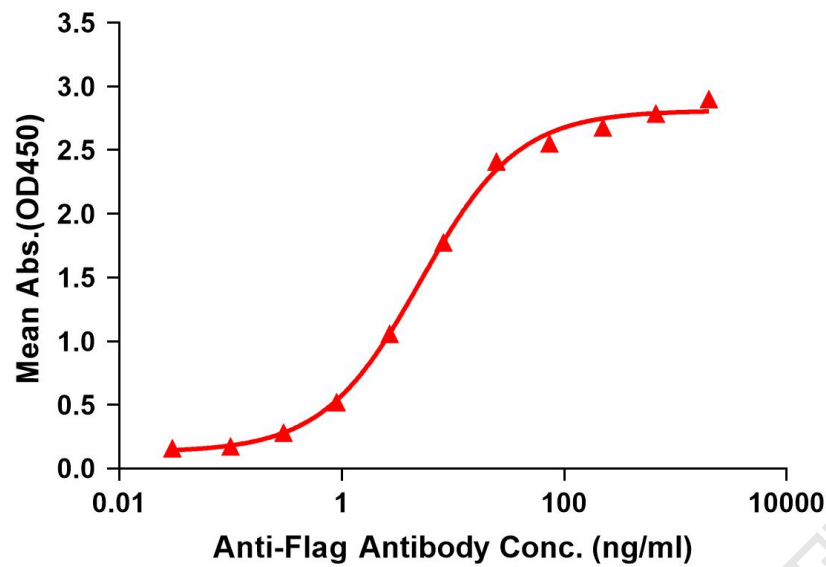


Figure1. Elisa plates were pre-coated with Flag Tag AQP5-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with AQP5-Nanodisc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

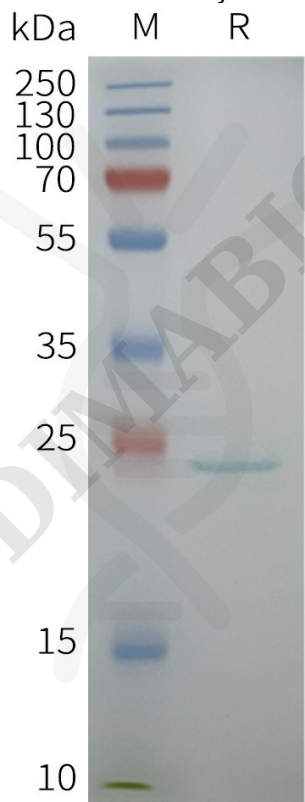


Figure2. Human AQP5-Nanodisc, Flag Tag on SDS-PAGE

