

PRODUCT INFORMATION

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| Tag | C-Flag Tag |
| Target | AQP5 |
| Synonyms | N/A |
| Description | Mouse Aqp5 full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | Q9WTY4 |
| Expression Host | HEK293 |
| Protein Families | N/A |
| Protein Pathways | N/A |
| Molecular Weight | The mouse 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 | Forms a water-specific channel (By similarity). Plays an important role in fluid secretion in salivary glands (PubMed:10400615, PubMed:16571723, PubMed:18027168). Required for TRPV4 activation by hypotonicity. Together with TRPV4, controls regulatory volume decrease in salivary epithelial cells (PubMed:16571723). Seems to play a redundant role in water transport in the eye, lung and in sweat glands (PubMed:10619865, PubMed:12042359, PubMed:18027168). |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate Aqp5-Nanodisc
0.2µg Mouse Aqp5-Nanodisc per well

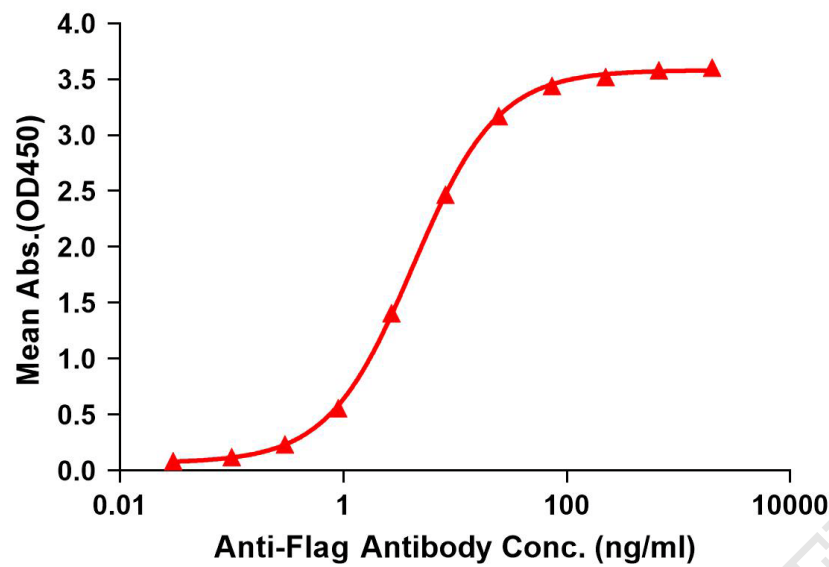


Figure 1. Elisa plates were pre-coated with C-Flag Tag Aqp5-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with Aqp5-nanodisc is 4.196ng/ml.



Figure 2. Mouse Aqp5-Nanodisc, Flag Tag on SDS-PAGE

