PRODUCT INFORMATION

Tag	C-Flag Tag
Target	AQP5
Synonyms	N/A
Description	Cyno AQP5 full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	A0A2K5V4J8
Expression Host	HEK293
Protein Families	N/A
Protein Pathways	N/A
Molecular Weight	The cyno 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	Aquaporins form homotetrameric transmembrane channels, with each monomer independently mediating water transport across the plasma membrane along its osmotic gradient. Plays an important role in fluid secretion in salivary glands. Required for TRPV4 activation by hypotonicity. Together with TRPV4, controls regulatory volume decrease in salivary epithelial cells. Seems to play a redundant role in water transport in the eye, lung and in sweat glands.
Usage	Research use only
Conjugate	Unconjugated

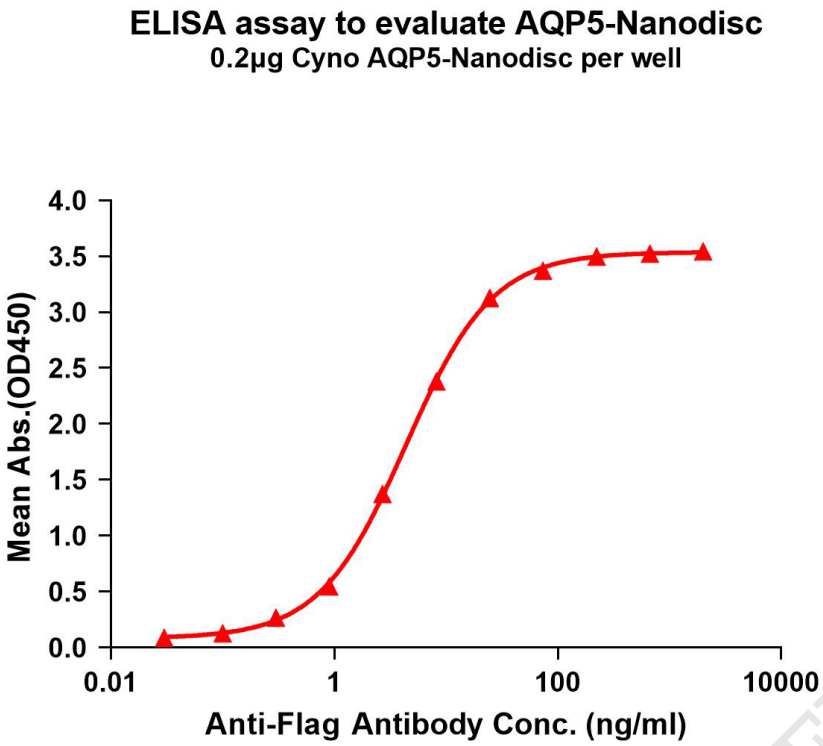

Figure 1. Elisa plates were pre-coated with C-Flag Tag AQP5-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with AQP5-nanodisc is 4.374ng/ml.

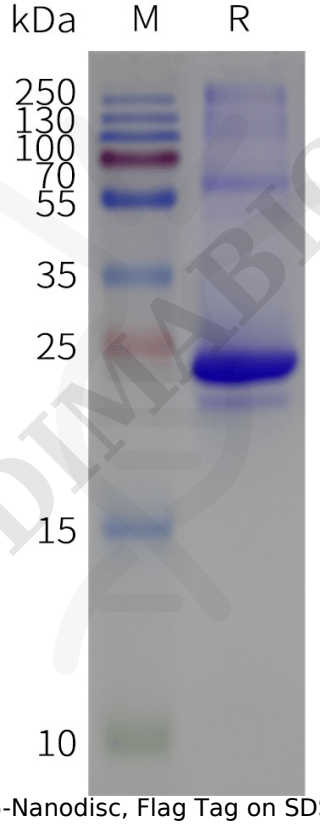

Figure 2. Cyno AQP5-Nanodisc, Flag Tag on SDS-PAGE