

**PRODUCT INFORMATION**

<b>Target</b>	AQP5
<b>Synonyms</b>	AQP-5; PPKB
<b>Description</b>	Human AQP5 full length protein-MNP
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P55064
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	Druggable Genome, Transmembrane
<b>Protein Pathways</b>	N/A
<b>Molecular Weight</b>	The human full length AQP5 protein has a MW of 28.3 kDa
<b>Formulation &amp; Reconstitution</b>	Lyophilized from PBS. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### ELISA assay to evaluate AQP5-MNP 0.5 $\mu$ g Human AQP5-MNP per well

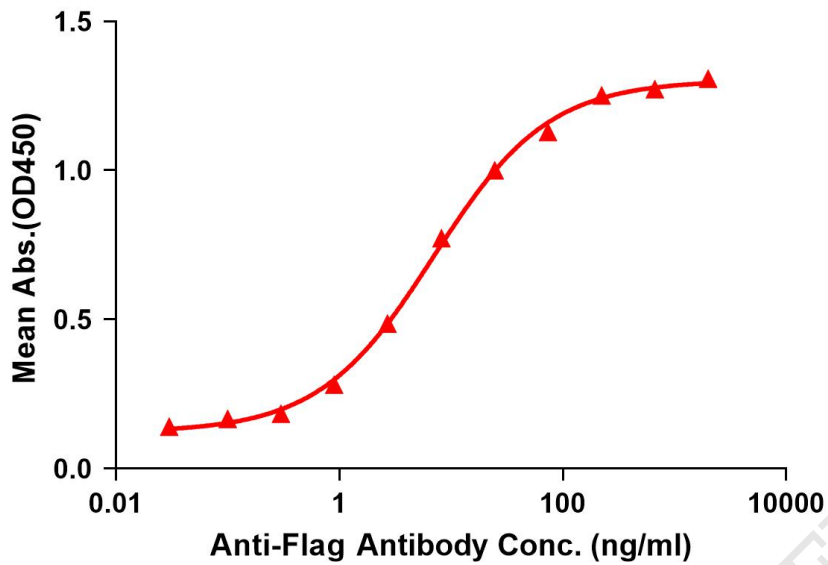


Figure1. Elisa plates were pre-coated with 0.5 $\mu$ g/per well purified human AQP5 full length membrane nanoparticles. Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with AQP5 full length membrane nanoparticles is 7.009ng/ml.

