

Human Aquaporin 2, Collecting Duct (AQP2) ELISA Kit | AQP2 elisa kit

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CATALOG #
AAA136530

REACTIVITY
Human

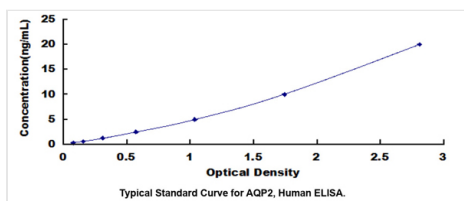
PRODUCT SYNONYMS

Aquaporin 2; Collecting Duct (AQP2); Human Aquaporin 2; Collecting Duct (AQP2) ELISA Kit; AQP-CD; WCH-CD; ADH water channel; Aquaporin-CD; Collecting duct water channel protein; Water channel protein for renal collecting duct; AQP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of AQP2. No significant cross-reactivity or interference between AQP2 and analogues was observed.
Sequence Length	271
Assay Type	Quantitative Sandwich
Samples	Human urine, tissue homogenates, cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.129ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level AQP2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level AQP2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AQP2 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to AQP2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to AQP2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain AQP2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of AQP2 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of AQP2 in human urine, tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for AQP2 elisa kit	Metabolic pathway; Kidney biomarker

NCBI AND UNIPROT INFORMATION

NCBI GI #	5052748
NCBI GeneID	359
UniProt Accession #	P41181; Q9UD68
Molecular Weight	28,837 Da
NCBI Official Full Name	aquaporin 2
NCBI Official Synonym Full Names	aquaporin 2 (collecting duct)
NCBI Official Symbol	AQP2
NCBI Official Synonym Symbols	AQP-CD; WCH-CD
NCBI Protein Information	aquaporin-2
UniProt Protein Name	Aquaporin-2
UniProt Gene Name	AQP2
UniProt Synonym Gene Names	AQP-2; AQP-CD
UniProt Entry Name	AQP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/aquaporin-2-collecting-duct-aqp2/136530>