

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

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CATALOG #
AAA68496

REACTIVITY
Mouse

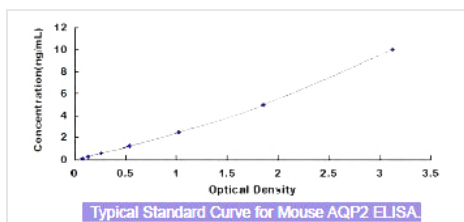
PRODUCT SYNONYMS

Aquaporin 2; Collecting Duct (AQP2); Mouse 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	Mouse
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
Samples	Mouse tissue homogenates, cell lysates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	< 0.059ng/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%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AQP2 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of AQP2 in mouse tissue homogenates, cell lysates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to AQP2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	160415209
NCBI GeneID	11827
NCBI Accession #	NP_033829.3
NCBI GenBank Nucleotide #	NM_009699.3
UniProt Accession #	P56402; Q8VCG5; Q9R232
Molecular Weight	28,965 Da
NCBI Official Full Name	aquaporin-2
NCBI Official Synonym Full Names	aquaporin 2
NCBI Official Symbol	Aqp2
NCBI Official Synonym Symbols	cph; jpk; 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

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/mouse-elisa-kits/aquaporin-2-collecting-duct-aqp2/68496>