

Human Aquaporin 4 (AQP4) ELISA Kit | AQP4 elisa kit

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CATALOG #
AAA20392

REACTIVITY
Human

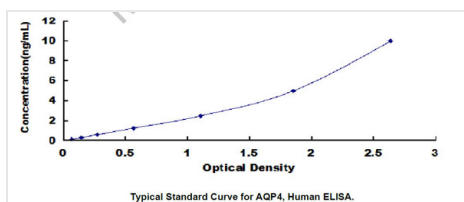
PRODUCT SYNONYMS

Aquaporin 4 (AQP4); Human Aquaporin 4 (AQP4) ELISA Kit; HMIWC2; MIWC; WCH4; Mercurial-insensitive water channel; AQP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity for detection of AQP4. 100% cross-reactivity of AQP4 was observed among human, mouse and rat.
Sequence Length	323
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.056ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level AQP4 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 AQP4 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 AQP4 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to AQP4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to AQP4. 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 AQP4, 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 AQP4 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 AQP4 in human tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for AQP4 elisa kit	Signal transduction; Metabolic pathway; Infection immunity; Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	18490380
NCBI GeneID	361
Molecular Weight	32,300 Da
NCBI Official Full Name	Aquaporin 4
NCBI Official Synonym Full Names	aquaporin 4
NCBI Official Symbol	AQP4
NCBI Official Synonym Symbols	MIWC; HMIWC2
NCBI Protein Information	aquaporin-4
UniProt Protein Name	Aquaporin-4
UniProt Gene Name	AQP4
UniProt Synonym Gene Names	AQP-4; MIWC
UniProt Entry Name	AQP4_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://www.aaabiotech.com/human-elisa-kits/aquaporin-4-aqp4/20392>