

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

Human Aquaporin 4 (AQP4) Mini Samples ELISA Kit

CATALOG #
AAA147353

REACTIVITY
Human

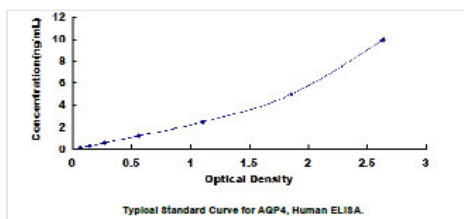
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of AQP4. No significant cross-reactivity or interference between AQP4 and analogues was observed.
Sequence Length	323
Samples	tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	<0.058ng/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%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AQP4 elisa kit

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.

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502181
NCBI GeneID	361
NCBI Accession #	NP_001641.1
NCBI GenBank Nucleotide #	NM_001650.5
UniProt Accession #	P55087; P78564
Molecular Weight	32,300 Da
NCBI Official Full Name	aquaporin-4 isoform M1
NCBI Official Synonym Full Names	aquaporin 4
NCBI Official Symbol	AQP4
NCBI Official Synonym Symbols	MIWC; WCH4
NCBI Protein Information	aquaporin-4
UniProt Protein Name	Aquaporin-4
UniProt Gene Name	AQP4
UniProt Synonym Gene Names	AQP-4; MIWC

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.