

Mouse Aquaporin 4 ELISA Kit | AQP4 elisa kit

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CATALOG #
AAA84468

REACTIVITY
Mouse

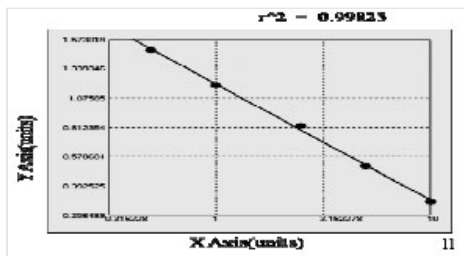
PRODUCT SYNONYMS

Aquaporin 4; Mouse Aquaporin 4 ELISA Kit; AQP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	2.5-50ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This AQP-4 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse AQP-4. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AQP4 elisa kit

Principle of the Assay: AQP-4 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-AQP-4 antibody and an AQP-4-HRP conjugate. The assay sample and buffer are incubated together with AQP-4-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the AQP-4 concentration since AQP-4 from samples and AQP-4-HRP conjugate compete for the anti-AQP-4 antibody binding site. Since the number of sites is limited, as more sites are occupied by AQP-4 from the sample, fewer sites are left to bind AQP-4-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The AQP-4 concentration in each sample is interpolated from this standard curve.

Product Categories/Family for AQP4 elisa kit

Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	4755125
NCBI GeneID	361
NCBI Accession #	NP_004019.1
NCBI GenBank Nucleotide #	NM_004028.3
Molecular Weight	32,300 Da
NCBI Official Full Name	aquaporin-4 isoform b
NCBI Official Synonym Full Names	aquaporin 4
NCBI Official Symbol	AQP4
NCBI Official Synonym Symbols	MIWC; HMIWC2
NCBI Protein Information	aquaporin-4; WCH4; aquaporin type4; aquaporin 4 isoform delta4; mercurial-insensitive water channel
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://stage.aaabiotech.com/aqp4-mouse-elisa-kits/aquaporin-4/84468>