

Canine Anti-aquaporin 4 antibody ELISA Kit | AQP-4 elisa kit

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CATALOG #
AAA94964

REACTIVITY
Canine

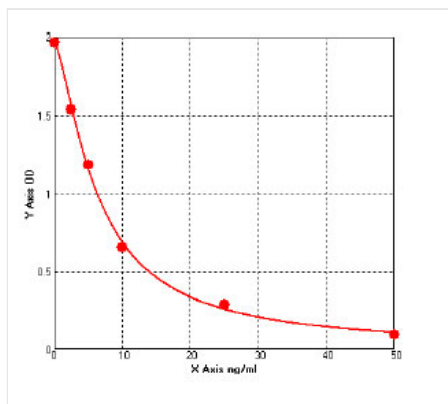
PRODUCT SYNONYMS

Anti-aquaporin 4 antibody; Canine Anti-aquaporin 4 antibody ELISA Kit; AQP-4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	This assay has high sensitivity and excellent specificity for detection of AQP4Ab. No significant cross-reactivity or interference between AQP4Ab and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between AQP4Ab and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Intended Uses	This Anti-AQP4 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine Anti-AQP4. 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 AQP-4 elisa kit	Principle of the Assay: AQP4Ab ELISA kit applies the competitive enzyme immunoassay technique utilizing Aquaporin 4 antigen and an AQP4Ab-HRP conjugate. The assay sample and buffer are incubated together with AQP4Ab-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 AQP4Ab concentration since AQP4Ab from samples and AQP4Ab-HRP conjugate compete for the Aquaporin 4 antigen binding site. Since the number of sites is limited, as more sites are occupied by AQP4Ab from the sample, fewer sites are left to bind AQP4Ab-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The AQP4Ab concentration in each sample is interpolated from this standard curve. Intended Uses: This AQP4Ab ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine AQP4Ab. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for AQP-4 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	160415211
NCBI GeneID	11829
NCBI Accession #	NP_033830.2
NCBI GenBank Nucleotide #	NM_009700.2
Molecular Weight	37,977 Da
NCBI Official Full Name	aquaporin-4
NCBI Official Synonym Full Names	aquaporin 4
NCBI Official Symbol	Aqp4
NCBI Official Synonym Symbols	WCH4
NCBI Protein Information	aquaporin-4; AQP-4; mercurial-insensitive water channel
UniProt Protein Name	Aquaporin-4
UniProt Gene Name	Aqp4
UniProt Synonym Gene Names	AQP-4; MIWC
UniProt Entry Name	AQP4_MOUSE

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/aqp-4-canine-elisa-kits/anti-aquaporin-4-antibody/94964>