

Canine Aquaporin 2, Collecting Duct ELISA Kit | AQP2 elisa kit

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CATALOG #
AAA90712

REACTIVITY
Canine

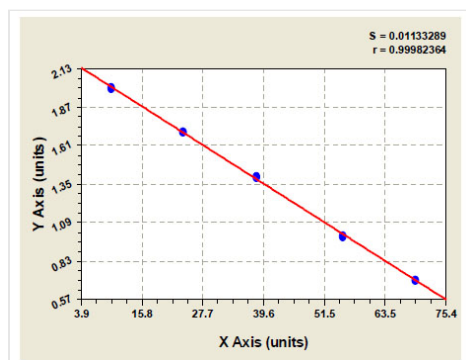
PRODUCT SYNONYMS

Aquaporin 2; Collecting Duct; Canine Aquaporin 2; Collecting Duct ELISA Kit; AQP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	5.0-100ng/mL
Sensitivity	1.0ng/mL
Intended Uses	This AQP-2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine AQP-2. 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 AQP2 elisa kit

Principle of the Assay: AQP-2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-AQP-2 antibody and an AQP-2-HRP conjugate. The assay sample and buffer are incubated together with AQP-2-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-2 concentration since AQP-2 from samples and AQP-2-HRP conjugate compete for the anti-AQP-2 antibody binding site. Since the number of sites is limited, as more sites are occupied by AQP-2 from the sample, fewer sites are left to bind AQP-2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The AQP-2 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502179
NCBI GeneID	359
NCBI Accession #	NP_000477.1
NCBI GenBank Nucleotide #	NM_000486.5
Molecular Weight	28,837 Da
NCBI Official Full Name	aquaporin-2
NCBI Official Synonym Full Names	aquaporin 2 (collecting duct)
NCBI Official Symbol	AQP2
NCBI Official Synonym Symbols	AQP-CD; WCH-CD
NCBI Protein Information	aquaporin-2; AQP-2; aquaporin-CD; ADH water channel; water-channel aquaporin 2; collecting duct water channel protein; water channel protein for renal collecting duct
UniProt Protein Name	Aquaporin-2
UniProt Gene Name	AQP2
UniProt Synonym Gene Names	AQP-2; AQP-CD
UniProt Entry Name	AQP2_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.