

## Sheep Aquaporin 2, Collecting Duct ELISA Kit | AQP-2 elisa kit

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CATALOG #  
**AAA89609**

REACTIVITY  
**Sheep**

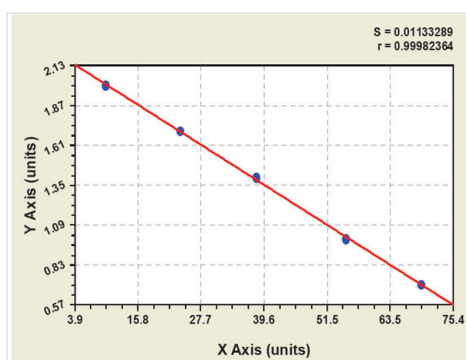
### PRODUCT SYNONYMS

Aquaporin 2; Collecting Duct; Sheep Aquaporin 2; Collecting Duct ELISA Kit; AQP-2 elisa kit

### PRODUCT SPECIFICATIONS

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

#### Product Categories/Family for AQP-2 elisa kit

[Signal Transduction](#)

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                | <b>AQP2</b>                                                                                                                                                            |
| 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.

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Online datasheet: <https://www.aaabiotech.com/aqp-2-sheep-elisa-kits/aquaporin-2-collecting-duct/89609>