

## Canine Claudin-7 (CLDN7) ELISA Kit | CLDN7 elisa kit

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CATALOG #  
**AAA247030**

REACTIVITY  
**Canine**

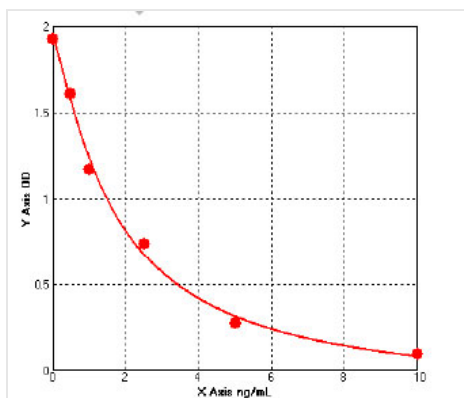
### PRODUCT SYNONYMS

Claudin-7 (CLDN7); Canine Claudin-7 (CLDN7) ELISA Kit; CLDN7 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Canine                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of CLDN7. No significant cross-reactivity or interference between CLDN7 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CLDN7 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                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                         |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CLDN7 elisa kit | <p>Principle of the Assay: CLDN7 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-CLDN7 antibody and an CLDN7-HRP conjugate. The assay sample and buffer are incubated together with CLDN7-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 CLDN7 concentration since CLDN7 from samples and CLDN7-HRP conjugate compete for the anti-CLDN7 antibody binding site. Since the number of sites is limited, as more sites are occupied by CLDN7 from the sample, fewer sites are left to bind CLDN7-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CLDN7 concentration in each sample is interpolated from this standard curve.</p> <p>Intended Uses: This CLDN7 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine CLDN7. This ELISA kit for research use only, not for therapeutic or test applications!</p> |
| Product Categories/Family for CLDN7 elisa kit   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 297206813                                                      |
| NCBI GeneID                      | 1366                                                           |
| NCBI Accession #                 | NP_001171952.1                                                 |
| NCBI GenBank Nucleotide #        | NM_001185023.1                                                 |
| Molecular Weight                 | 16,837 Da                                                      |
| NCBI Official Full Name          | claudin-7 isoform 2                                            |
| NCBI Official Synonym Full Names | claudin 7                                                      |
| NCBI Official Symbol             | CLDN7                                                          |
| NCBI Official Synonym Symbols    | CLDN-7; CEPTRL2; CPETRL2; Hs.84359; claudin-1                  |
| NCBI Protein Information         | claudin-7; clostridium perfringens enterotoxin receptor-like 2 |
| UniProt Protein Name             | Claudin-7                                                      |
| UniProt Gene Name                | CLDN7                                                          |
| UniProt Synonym Gene Names       | CEPTRL2; CPETRL2; CLDN-7                                       |
| UniProt Entry Name               | CLD7_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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