

## Rat H (+)/Cl (-) Exchange Transporter 5 (CLCN5) ELISA Kit | CLCN5 elisa kit

Rat H (+)/Cl (-) Exchange Transporter 5 (CLCN5) ELISA Kit

CATALOG #  
**AAA247295**

REACTIVITY  
**Rat**

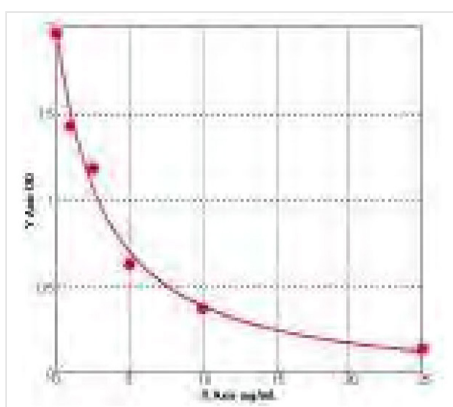
### PRODUCT SYNONYMS

H (+)/Cl (-) Exchange Transporter 5 (CLCN5); Rat H (+)/Cl (-) Exchange Transporter 5 (CLCN5) ELISA Kit; CLCN5 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                         |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of CLCN5. No significant cross-reactivity or interference between CLCN5 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CLCN5 and all the analogues, therefore, cross reaction may still exist in some cases. |
| Sequence Length         | 746                                                                                                                                                                                                                                                                                                                                                                                         |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                    |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                                  |
| Sensitivity             | 0.1 ng/ml                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity Note         | No significant cross-reactivity or interference between this antigen and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection, therefore, cross reaction may still exist in some cases.                                                                                                                |
| Preparation and Storage | Store at 2-8 degree C.<br>The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.                                                                                                                                                                                        |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CLCN5 elisa kit | <p>Principle of the Assay: CLCN5 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-CLCN5 antibody and an CLCN5-HRP conjugate. The assay sample and buffer are incubated together with CLCN5-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 CLCN5 concentration since CLCN5 from samples and CLCN5-HRP conjugate compete for the anti-CLCN5 antibody binding site. Since the number of sites is limited, as more sites are occupied by CLCN5 from the sample, fewer sites are left to bind CLCN5-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CLCN5 concentration in each sample is interpolated from this standard curve.</p> <p>Intended Uses: This CLCN5 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CLCN5. This ELISA kit for research use only, not for therapeutic or test applications!</p> |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| NCBI GI #                        | 4557473                                                     |
| NCBI GeneID                      | 1184                                                        |
| NCBI Accession #                 | NP_000075.1                                                 |
| NCBI GenBank Nucleotide #        | NM_000084.4                                                 |
| UniProt Accession #              | P51795; Q5JQD5; Q7RTN8; A1L475; B3KPN6                      |
| Molecular Weight                 | 90,785 Da                                                   |
| NCBI Official Full Name          | H(+)/Cl(-) exchange transporter 5 isoform b                 |
| NCBI Official Synonym Full Names | chloride voltage-gated channel 5                            |
| NCBI Official Symbol             | CLCN5                                                       |
| NCBI Official Synonym Symbols    | XRN; CLC5; XLRH; CLCK2; CIC-5; DENTS; NPHL1; NPHL2; hCIC-K2 |
| NCBI Protein Information         | H(+)/Cl(-) exchange transporter 5                           |
| UniProt Protein Name             | H(+)/Cl(-) exchange transporter 5                           |
| UniProt Gene Name                | CLCN5                                                       |
| UniProt Synonym Gene Names       | CLCK2; CIC-5                                                |

**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.