

Rat Claudin-2 (CLDN2) ELISA Kit | CLDN2 elisa kit

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CATALOG #
AAA245534

REACTIVITY
Rat

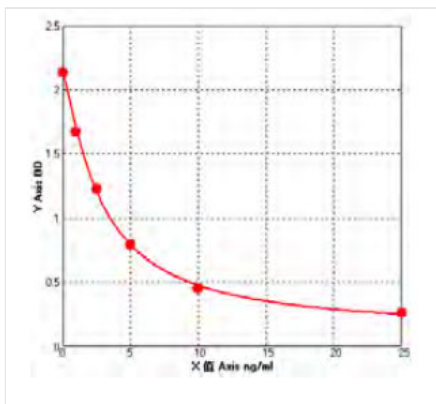
PRODUCT SYNONYMS

Claudin-2 (CLDN2); Rat Claudin-2 (CLDN2) ELISA Kit; CLDN2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of CLDN-2. No significant cross-reactivity or interference between CLDN-2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CLDN-2 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
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 CLDN2 elisa kit	Intended Uses: This CLDN-2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CLDN-2. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: CLDN-2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CLDN-2 antibody and an CLDN-2-HRP conjugate. The assay sample and buffer are incubated together with CLDN-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 CLDN-2 concentration since CLDN-2 from samples and CLDN-2-HRP conjugate compete for the anti-CLDN-2 antibody binding site. Since the number of sites is limited, as more sites are occupied by CLDN-2 from the sample, fewer sites are left to bind CLDN-2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CLDN-2 concentration in each sample is interpolated from this standard curve.
Product Categories/Family for CLDN2 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	283806634
NCBI GeneID	9075
NCBI Accession #	NP_001164566.1
NCBI GenBank Nucleotide #	NM_001171095.1
Molecular Weight	24,549 Da
NCBI Official Full Name	claudin-2
NCBI Official Synonym Full Names	claudin 2
NCBI Official Symbol	CLDN2
NCBI Protein Information	claudin-2; SP82
UniProt Protein Name	Claudin-2
UniProt Gene Name	CLDN2
UniProt Synonym Gene Names	PSEC0059; SP82; UNQ705/PRO1356
UniProt Entry Name	CLD2_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/claudin-2-cldn2/245534>