

Rat Collagen Type IV ELISA Kit | CIV elisa kit

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CATALOG #
AAA16630

REACTIVITY
Rat

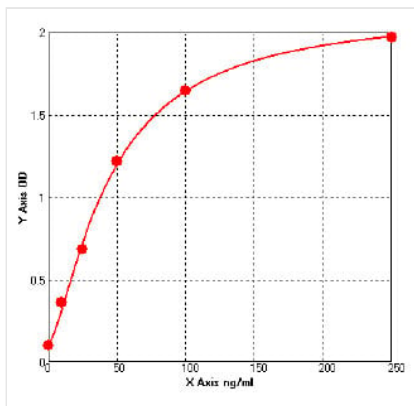
PRODUCT SYNONYMS

Collagen Type IV; Rat Collagen Type IV ELISA Kit; CIV elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of COL4. No significant cross-reactivity or interference between COL4 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COL4 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive or Sandwich
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CIV elisa kit	Principle of the Assay: COL4 ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for COL4. Standards or samples are then added to the microtiter plate wells and COL4 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of COL4 present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific for COL4 are added to each well to "sandwich" the COL4 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain COL4 and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL4 concentration in each sample is interpolated from this standard curve. Intended Uses: This COL4 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat COL4. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
Product Categories/Family for CIV elisa kit	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	119629513
NCBI GeneID	1282
Molecular Weight	127,981 Da
NCBI Official Full Name	collagen, type IV, alpha 1, isoform CRA_a
NCBI Official Synonym Full Names	collagen, type IV, alpha 1
NCBI Official Symbol	COL4A1
NCBI Official Synonym Symbols	ICH; HANAC; POREN1; arresten
NCBI Protein Information	collagen alpha-1(IV) chain; collagen alpha-1(IV) chain; COL4A1 NC1 domain; collagen IV, alpha-1 polypeptide; collagen of basement membrane, alpha-1 chain
UniProt Protein Name	Collagen alpha-1(IV) chain
UniProt Gene Name	COL4A1
UniProt Entry Name	CO4A1_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.