

Guinea Pig Collagen Type IV ELISA Kit | CIV elisa kit

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CATALOG #
AAA83456

REACTIVITY
Guinea Pig

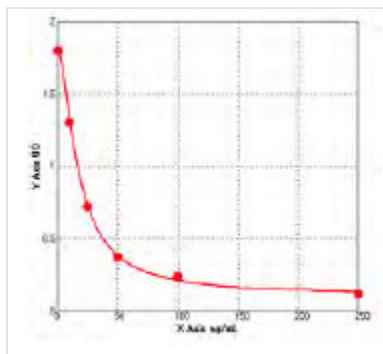
PRODUCT SYNONYMS

Collagen Type IV; Guinea pig Collagen Type IV ELISA Kit; CIV elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Guinea Pig
Specificity	This assay has high sensitivity and excellent specificity for detection of COL-4. No significant cross-reactivity or interference between COL-4 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COL-4 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	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	Intended Uses: This COL-4 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of guinea pig COL-4. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: COL-4 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-COL-4 antibody and an COL-4-HRP conjugate. The assay sample and buffer are incubated together with COL-4-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 COL-4 concentration since COL-4 from samples and COL-4-HRP conjugate compete for the anti-COL-4 antibody binding site. Since the number of sites is limited, as more sites are occupied by COL-4 from the sample, fewer sites are left to bind COL-4-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL-4 concentration in each sample is interpolated from this standard curve.
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.