

Human Collagen Type IV (COL4) ELISA Kit | COL4 elisa kit

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CATALOG #
AAA183092

REACTIVITY
Human

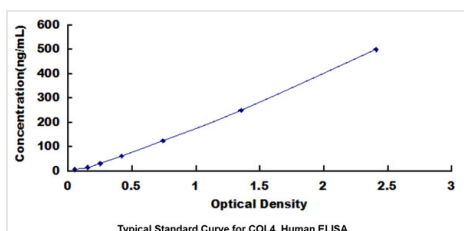
PRODUCT SYNONYMS

Collagen Type IV (COL4); Human Collagen Type IV (COL4) ELISA Kit; Type-IV Collagen; COL4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
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.
Sequence Length	18
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	7.8-500ng/mL
Sensitivity	< 3.3ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level COL4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL4 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to COL4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to COL4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain COL4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of COL4 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of COL4 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
References	Mammalian pumilio proteins control cellular morphology, migration, and adhesion; <i>Sci Rep</i>; 2023 Feb 21;13(1):3002.; PMID: 36810759; Erin L Sternburg; Department of Molecular, Cell and Systems Biology, University of California at Riverside, Riverside, CA, 92521, USA.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4261609
NCBI GeneID	1287
Molecular Weight	161,632 Da
NCBI Official Full Name	collagen type IV alpha 5 chain, partial
NCBI Official Synonym Full Names	collagen type IV alpha 5 chain
NCBI Official Symbol	COL4A5
NCBI Official Synonym Symbols	ATS; ASLN; CA54
NCBI Protein Information	collagen alpha-5(IV) chain
UniProt Protein Name	Collagen alpha-5(IV) chain
UniProt Gene Name	COL4A5

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.