

Human Collagen Type IV Alpha 3 (COL4a3) ELISA Kit | COL4a3 elisa kit

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CATALOG #
AAA138816

REACTIVITY
Human

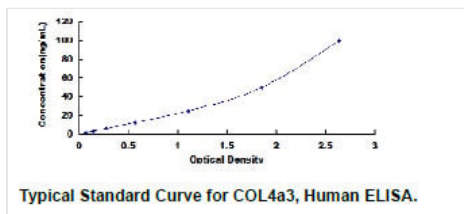
PRODUCT SYNONYMS

Collagen Type IV Alpha 3 (COL4a3); Human Collagen Type IV Alpha 3 (COL4a3) ELISA Kit; COL4-A3; Tumstatin; Goodpasture Antigen; Collagen Alpha-3(IV)chain; COL4a3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of COL4a3. No significant cross-reactivity or interference between COL4a3 and analogues was observed.
Sequence Length	1,424
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	0.55ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL4a3 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 COL4a3 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 COL4a3 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of COL4a3 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to COL4a3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to COL4a3. 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 COL4a3, 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 COL4a3 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for COL4a3 elisa kit	Metabolic pathway; Developmental science; Hepatology; Nutrition metabolism; Autoimmunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	409107
NCBI GeneID	1285
UniProt Accession #	Q01955; Q53QQ1; Q53R14; Q53RW8; Q9BQT2; Q9NYC4; Q9UDJ9; Q9UDK9; Q9UDL0; Q9UDL1
Molecular Weight	135,079 Da
NCBI Official Full Name	collagen type IV alpha 3, partial
NCBI Official Synonym Full Names	collagen, type IV, alpha 3 (Goodpasture antigen)
NCBI Official Symbol	COL4A3
NCBI Protein Information	collagen alpha-3(IV) chain
UniProt Protein Name	Collagen alpha-3(IV) chain
UniProt Gene Name	COL4A3
UniProt Entry Name	CO4A3_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/collagen-type-iv-alpha-3-col4a3/138816>