

Human Collagen Type IV ELISA Kit | COL4 elisa kit

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CATALOG #
AAA17640

REACTIVITY
Human

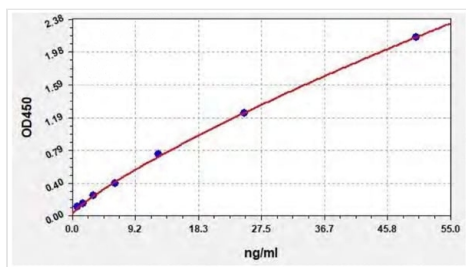
PRODUCT SYNONYMS

Collagen Type IV; Human Collagen Type IV ELISA Kit; COL4/Type-IV Collagen; COL4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize COL4, no obvious cross reaction with other analogues
Sequence Length	1779
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.781-50ng/ml
Sensitivity	0.469ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL4 elisa kit	Background: Type IV collagen is the main collagen component of the basement membrane. It is a network-forming collagen that underlies epithelial and endothelial cells and functions as a barrier between tissue compartments. Type IV collagen has many binding partners and forms the backbone of the basement membrane. It holds important signaling potential as subdomains such as tumstatin are released when the protein is degraded by special proteases. Consequently, type IV collagen is both the most important structural collagen of the basement membrane and it entails key signaling potential, which is important for various physiological and pathological functions. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti COL4 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti COL4 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with COL4 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of COL4 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	24581824
NCBI GeneID	33727
NCBI Accession #	NP_723046.1
NCBI GenBank Nucleotide #	NM_164617.2
Molecular Weight	174,300 Da
NCBI Official Full Name	collagen type IV, isoform C
NCBI Official Synonym Full Names	Collagen type IV
NCBI Official Symbol	Cg25C
NCBI Official Synonym Symbols	alpha(IV)1/Cg25C; alpha1; cg25c; cg25C; CG25C; CG4145; Cgc25; Cgc25C; Col IV alpha(1); col4a1; Coll; Coll IV; CT12803; Dcg; Dcg1; DCg1; DmelCG4145; gp125
NCBI Protein Information	CG4145 gene product from transcript CG4145-RB
UniProt Protein Name	Collagen alpha-1(IV) chain
UniProt Gene Name	Cg25C
UniProt Synonym Gene Names	DCg1
UniProt Entry Name	CO4A1_DROME

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.