

Rat Collagen Type IV Alpha 1 (COL4a1) ELISA Kit | COL4a1 elisa kit

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CATALOG #
AAA65198

REACTIVITY
Rat

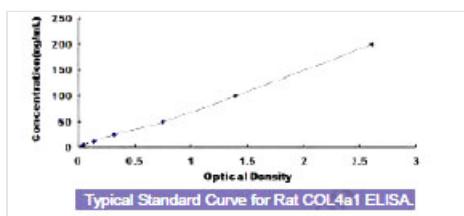
PRODUCT SYNONYMS

Collagen Type IV Alpha 1 (COL4a1); Rat Collagen Type IV Alpha 1 (COL4a1) ELISA Kit; COL4-A1; Arresten; Collagen Alpha-1(IV)chain; COL4a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of COL4a1. No significant cross-reactivity or interference between COL4a1 and analogues was observed.
Sequence Length	1669
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Assay Type	Sandwich
Detection Range	3.125-200ng/mL
Sensitivity	1.38ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL4a1 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 COL4a1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL4a1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of COL4a1 in rat serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to COL4a1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to COL4a1. 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 COL4a1, 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 COL4a1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	201860274
NCBI GeneID	290905
NCBI Accession #	NP_001128481.1
NCBI GenBank Nucleotide #	NM_001135009.1
UniProt Accession #	F1MA59
Molecular Weight	160,613 Da
NCBI Official Full Name	collagen alpha-1(IV) chain
NCBI Official Synonym Full Names	collagen type IV alpha 1 chain
NCBI Official Symbol	Col4a1
NCBI Protein Information	collagen alpha-1(IV) chain
UniProt Protein Name	Protein Col4a1
UniProt Gene Name	Col4a1

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.