

Mouse Collagen Type III Alpha 1 (COL3a1) ELISA Kit | COL3a1 elisa kit

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CATALOG #
AAA68532

REACTIVITY
Mouse

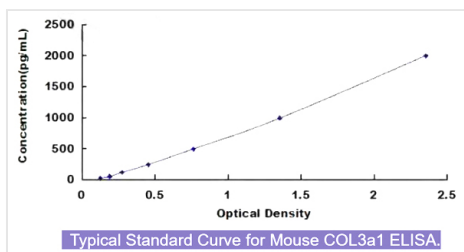
PRODUCT SYNONYMS

Collagen Type III Alpha 1 (COL3a1); Mouse Collagen Type III Alpha 1 (COL3a1) ELISA Kit; COL3-A1; COL3A1; EDS4A; Collagen Type III Alpha 1; Ehlers-Danlos Syndrome Type IV Autosomal Dominant; Collagen Alpha-1(III)chain; COL3a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of COL3a1. No significant cross-reactivity or interference between COL3a1 and analogues was observed.
Sequence Length	1464
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates or other biological fluids
Detection Range	31.2-2000pg/mL
Sensitivity	< 14.5pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL3a1 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 COL3a1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL3a1 elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to COL3a1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to COL3a1. 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 COL3a1, 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 COL3a1 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 the in vitro quantitative measurement of COL3a1 in mouse serum, plasma, tissue homogenates or other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	226423933
NCBI GeneID	12825
NCBI Accession #	NP_034060.2
NCBI GenBank Nucleotide #	NM_009930.2
UniProt Accession #	P08121; Q61429; Q9CRN7
Molecular Weight	138,943 Da
NCBI Official Full Name	collagen alpha-1(III) chain preproprotein
NCBI Official Synonym Full Names	collagen, type III, alpha 1
NCBI Official Symbol	Col3a1
NCBI Official Synonym Symbols	Tsk2; Tsk-2; Col3a-1; AW550625
NCBI Protein Information	collagen alpha-1(III) chain
UniProt Protein Name	Collagen alpha-1(III) chain
UniProt Gene Name	Col3a1

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/mouse-elisa-kits/collagen-type-iii-alpha-1-col3a1/68532>