

Human Collagen Type VII (COL7) ELISA Kit | COL7 elisa kit

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CATALOG #
AAA185548

REACTIVITY
Human

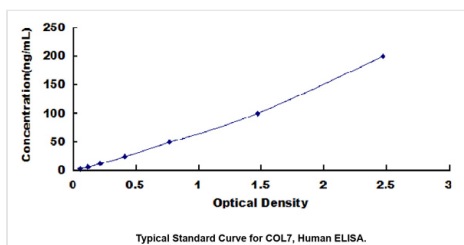
PRODUCT SYNONYMS

Collagen Type VII (COL7); Human Collagen Type VII (COL7) ELISA Kit; COL7-A1; COL7A1; EBD1; EBDCT; EBR1; Long-chain collagen; Epidermolysis Bullosa; Dystrophic; Dominant And Recessive; Collagen Alpha-1(VII)chain; COL7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of COL7. No significant cross-reactivity or interference between COL7 and analogues was observed.
Sequence Length	2912
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	3.12-200ng/mL
Sensitivity	< 1.33ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COL7 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 COL7 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 COL7 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to COL7. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to COL7. 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 COL7, 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 COL7 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 COL7 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	495866
NCBI GeneID	1294
Molecular Weight	292,267 Da
NCBI Official Full Name	collagen type VII
NCBI Official Synonym Full Names	collagen type VII alpha 1 chain
NCBI Official Symbol	COL7A1
NCBI Official Synonym Symbols	EBD1; EBR1; EBDCT; NDNC8
NCBI Protein Information	collagen alpha-1(VII) chain
UniProt Protein Name	Collagen alpha-1(VII) chain
UniProt Gene Name	COL7A1
UniProt Synonym Gene Names	LC collagen

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.