

Human Collagen Type IX alpha1 ELISA Kit | COL9a1 elisa kit

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CATALOG #
AAA94815

REACTIVITY
Human

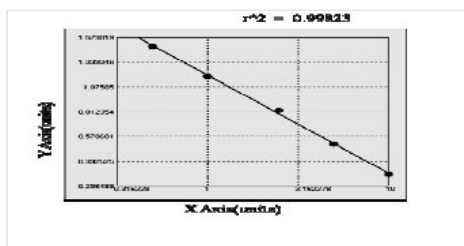
PRODUCT SYNONYMS

Collagen Type IX alpha1; Human Collagen Type IX alpha1 ELISA Kit; Human Collagen Type IX a1 ELISA Kit; COL9a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	5.0-100ng/mL
Sensitivity	1.0ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COL9a1 elisa kit

Intended Uses: This COL9alpha1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human COL9alpha1. This ELISA kit for research use only!

Principle of the Assay: COL9alpha1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-COL9alpha1 antibody and an COL9alpha 1-HRP conjugate. The assay sample and buffer are incubated together with COL9alpha1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the COL9alpha1 concentration since COL9alpha1 from samples and COL9alpha 1-HRP conjugate compete for the anti-COL9alpha1 antibody binding site. Since the number of sites is limited, as more sites are occupied by COL9alpha 1 from the sample, fewer sites are left to bind COL9alpha1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COL9alpha1 concentration in each sample is interpolated from this standard curve.

Product Categories/Family for COL9a1 elisa kit

Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	73486666
NCBI GeneID	1297
NCBI Accession #	NP_001842.3
NCBI GenBank Nucleotide #	NM_001851.4
UniProt Accession #	P20849; Q13699; Q13700; Q5TF52; Q6P467; Q96BM8; Q99225; Q9H151; Q9H152; Q9Y6P2; Q9Y6P3
Molecular Weight	91,869 Da
NCBI Official Full Name	collagen alpha-1(IX) chain isoform 1
NCBI Official Synonym Full Names	collagen, type IX, alpha 1
NCBI Official Symbol	COL9A1
NCBI Official Synonym Symbols	MED; EDM6; STL4; DJ149L1.1.2
NCBI Protein Information	collagen alpha-1(IX) chain; collagen alpha-1(IX) chain; alpha-1(IX) collagen chain; collagen IX, alpha-1 polypeptide; cartilage-specific short collagen
UniProt Protein Name	Collagen alpha-1(IX) chain
UniProt Gene Name	COL9A1
UniProt Entry Name	CO9A1_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/col9a1-human-elisa-kits/collagen-type-ix-alpha1/94815>