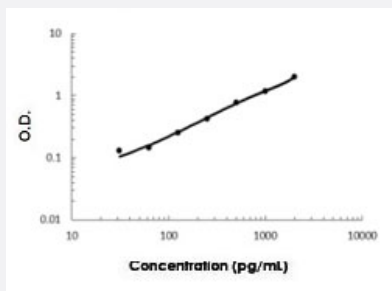


COL1A1 (Human) ELISA Kit

Catalog # KA5484

Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	COL1A1 (Human) ELISA Kit is a sandwich enzyme-linked immunosorbent assay for the quantitative measurement of human COL1A1 in cell culture supernatants, serum and plasma (heprain, EDTA, citrate).
Suitable Sample	Cell Culture Supernatants, Plasma (Heprain, EDTA, Citrate) and Serum.
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	31.2 to 2000 pg/mL
Reactivity	Human
Regulatory Status	For research use only (RUO)
Storage Instruction	Store at 4°C for short term. Store at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

Applications

- Quantification

Gene Info — COL1A1

Entrez GeneID [1277](#)

Gene Name COL1A1

Gene Alias OI4

Gene Description collagen, type I, alpha 1

Omim ID [114000](#) [120150](#) [130000](#) [130060](#) [166200](#) [166210](#) [166220](#) [166710](#) [259420](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene encodes the pro-alpha1 chains of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalglish]

Other Designations

alpha 1 type I collagen|collagen alpha 1 chain type I|collagen of skin, tendon and bone, alpha-1 chain|pro-alpha-1 collagen type 1|type I collagen alpha 1 chain

Pathway

- [ECM-receptor interaction](#)
- [Focal adhesion](#)

Disease

- [Alzheimer disease](#)
- [Aortic Aneurysm](#)

- [beta-Thalassemia](#)
- [Body Weight](#)
- [Bone Diseases](#)
- [Bone Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Clubfoot](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Crohn Disease](#)
- [Cystic fibrosis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Diseases in Twins](#)
- [Dwarfism](#)
- [Edema](#)
- [Femoral Neck Fractures](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Fractures](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Hearing Loss](#)
- [Hepatitis B](#)

- [Hip Dislocation](#)
- [Hip Fractures](#)
- [Infection](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Intervertebral Disk Displacement](#)
- [Liver Cirrhosis](#)
- [Low Back Pain](#)
- [Metabolic Syndrome X](#)
- [Mouth Neoplasms](#)
- [Musculoskeletal Diseases](#)
- [Myocardial Infarction](#)
- [Myopia](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Oral Submucous Fibrosis](#)
- [Osteoarthritis](#)
- [Osteogenesis Imperfecta](#)
- [Osteoporosis](#)
- [Otosclerosis](#)
- [Periodontitis](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)

- [Puberty](#)
- [Pulmonary Disease](#)
- [Rupture](#)
- [Shoulder Dislocation](#)
- [Skin Diseases](#)
- [Soft Tissue Injuries](#)
- [Spinal Diseases](#)
- [Spinal Fractures](#)
- [Spinal Injuries](#)
- [Tendinopathy](#)
- [Thalassemia](#)
- [Tobacco Use Disorder](#)
- [Urinary Incontinence](#)
- [Uterine Cervical Incompetence](#)
- [Wrist Injuries](#)