

Human Collagen Type III Alpha 1 (COL3A1) ELISA Kit

Catalog No: #EK11906



Package Size: #EK11906-1 48T #EK11906-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Collagen Type III Alpha 1 (COL3A1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	COL3-A1; COL3A1; EDS4A; Collagen Type III Alpha 1; Ehlers-Danlos Syndrome Type IV Autosomal Dominant; Collagen Alpha-1(III)chain
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.625-40 ng/mL

Sensitivity:0.255 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate COL3A1 in samples. An antibody specific for COL3A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCOL3A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for COL3A1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of COL3A1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Collagen alpha-1(III) chain is a fibrillar collagen that is found in extensible connective tissues such as skin, lung, and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome type IV, and with aortic and arterial aneurysms. Although alternate transcripts have been detected for this gene, they are the result of mutations; these mutations alter splicing, often leading to the exclusion of multiple exons.By fluorescence in situ hybridization, Limongi et al. (1997) concluded that the COL3A1 gene is located in chromosome band 2q32.2 and that the nebulin gene is located in band 2q24.2; the FRA2G fragile site was found to lie between the 2 genes in the 2q31 band.

Note: This product is for in vitro research use only