ARG83890
Rat Collagen I ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83890 Rat Collagen I ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Collagen I in serum and plasma
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	Collagen I
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.233 ng/ml
Sample Type	serum and plasma
Standard Range	0.63 - 40 ng/ml
Sample Volume	100 µl
Alternate Names	collagen type I alpha 1 chain; OI1; OI2; OI3; OI4; EDSC; Collagen alpha-1(I) chain; Alpha-1 type I collagen; Collagen type I alpha 2 chain; Collagen alpha-2(I) chain

Application Instructions

Assay Time	3.5 hours

Properties

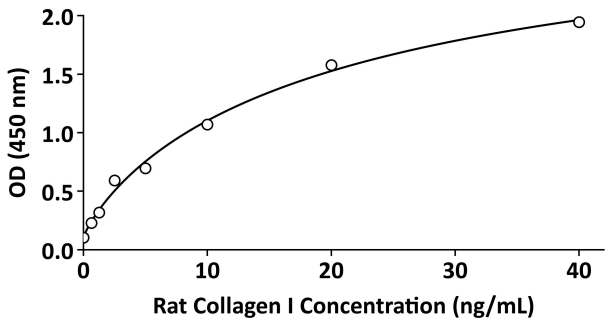
Form	96 well
Storage instruction	Store the kit at 4°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	COL1A1; COL1A2
Gene Full Name	collagen, type I
Background	Collagen 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. Dalgleish, Feb 2008]

Function	Type I collagen is a member of group I collagen (fibrillar forming collagen). [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30346 Myofibroblast / Fibrosis Antibody Panel Related products: Collagen I antibodies; Collagen I ELISA Kits; Collagen I Duos / Panels; Anti-Goat IgG secondary antibodies; Related news: Collagen I antibody for studying rabbit bone differentiation New antibody panels for Myofibroblasts and CAFs
PTM	Proline residues at the third position of the tripeptide repeating unit (G-X-P) are hydroxylated in some or all of the chains. Proline residues at the second position of the tripeptide repeating unit (G-P-X) are hydroxylated in some of the chains. O-linked glycan consists of a Glc-Gal disaccharide bound to the oxygen atom of a post-translationally added hydroxyl group.

Images



ARG83890 Rat Collagen I ELISA Kit standard curve image

ARG83890 Rat Collagen I ELISA Kit results of a typical standard run with optical density reading at 450 nm.