

Recombinant Human COL1A2, GST-tagged

Cat. No. COL1A2-115H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COL1A2 partial ORF (AAH54498.1, 1257 a.a. - 1366 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes the pro-alpha2 chain 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 VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.
Molecular Mass	37.95 kDa
AA Sequence	MRLLANYASQNITYHCKNSIAYMDEETGNLKKAVILQGSNDVELVAEGNSRFTYTVL VDGCSKKTNEWGKTIIEY KTNKPSRLPFLDIAPLDIGGADQEFFVDIGPVCFK
Applications	ELISA; WB-Re; AP; Array

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Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	COL1A2?collagen, type I, alpha 2 [?Homo sapiens?(human)]
Official Symbol	COL1A2
Synonyms	COL1A2; OI4; collagen, type I, alpha 2; collagen alpha-2(I) chain; type I procollagen; alpha 2(I)-collagen; alpha-2 type I collagen; collagen I, alpha-2 polypeptide; collagen of skin, tendon and bone, alpha-2 chain
Gene ID	1278
mRNA Refseq	NM_000089
Protein Refseq	NP_000080
MIM	120160
UniProt ID	P08123
Chromosome Location	7q22.1
Pathway	Binding and Uptake of Ligands by Scavenger Receptors; ECM-receptor interaction; Focal Adhesion
Function	extracellular matrix structural constituent; identical protein binding; metal ion binding

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