

Recombinant Full Length Human COL9A1 Protein, GST-tagged

Cat. No. COL9A1-2183HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human COL9A1 full-length ORF (AAH15409, 1 a.a. - 328 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	328 amino acids
Description	This gene encodes one of the three alpha chains of type IX collagen, which is a minor (5-20%) collagen component of hyaline cartilage. Type IX collagen is usually found in tissues containing type II collagen, a fibrillar collagen. Studies in knockout mice have shown that synthesis of the alpha 1 chain is essential for assembly of type IX collagen molecules, a heterotrimeric molecule, and that lack of type IX collagen is associated with early onset osteoarthritis. Mutations in this gene are associated with osteoarthritis in humans, with multiple epiphyseal dysplasia, 6, a form of chondrodysplasia, and with Stickler syndrome, a disease characterized by ophthalmic, orofacial, articular, and auditory defects. Two transcript variants that encode different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
Molecular Mass	61.82 kDa
AA Sequence	MKTCWKIPVFFFVCSFLEPWASAAVKRRRPRFPVNSNSNGGNELCPKIRIGQDDLPG FDLISQFQVDKAASRRAIQRVVGSA TLQVAYKLGNNVDFRIPTRNLYPSGLPEEYSFL

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TTFRMTGSTLKKNNWNIWQIQDSSGKEQVGIKINGQTQSVVFSYKGLDGSLSQTAAFS
 NLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPKPRGPIDIDGFAVLGKLADNPQV
 SVPFELQWMLIHCDPLRPRRETCHHELPARITPSQTTDERGPPGEQGGPPGPPGPPGV
 PGIDGIDGDRGPKGPPGPPGPAGEPGKPGAPGKPGTPGADTSP

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. 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
 COL9A1 collagen, type IX, alpha 1 [Homo sapiens]

Official Symbol
 COL9A1

Synonyms
 COL9A1; collagen, type IX, alpha 1; collagen alpha-1(IX) chain; alpha-1(IX) collagen chain; collagen IX, alpha-1 polypeptide; cartilage-specific short collagen; MED; EDM6; STL4; DJ149L1.1.2; FLJ40263

Gene ID
 1297

mRNA Refseq
 NM_001851

Protein Refseq
 NP_001842

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MIM	120210
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UniProt ID	P20849
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