

Immunotag™ Collagen XI α1 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT6145
Product Description	Immunotag™ Collagen XI α1 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Collagen XI α1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000, ELISA 1:10000-20000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from human Collagen XI α1 Polyclonal
Specificity	This antibody detects endogenous levels of Collagen XI α1.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	COL11A1 COL6
Accession No.	P12107 Q61245 P20909
Alternate Names	Collagen alpha-1(XI) chain

Antibody Specification

Description	collagen type XI alpha 1 chain(COL11A1) Homo sapiens This gene encodes one of the two alpha chains of type XI collagen, a minor fibrillar collagen. Type XI collagen is a heterotrimer but the third alpha chain is a post-translationally modified alpha 1 type II chain. Mutations in this gene are associated with type II Stickler syndrome and with Marshall syndrome. A single-nucleotide polymorphism in this gene is also associated with susceptibility to lumbar disc herniation. Multiple transcript variants have been identified for this gene. [provided by RefSeq, Nov 2009],
Cell Pathway/ Category	Focal adhesion,ECM-receptor interaction,
Protein Expression	Blood,Brain,PCR rescued clones,
Subcellular Localization	extracellular region,proteinaceous extracellular matrix,collagen trimer,collagen type XI trimer,endoplasmic reticulum lumen,
Protein Function	Additional isoforms seem to exist. There is alternative usage of exon IIA or exon IIB. Transcripts containing exon IIA or IIB are present in cartilage, but exon IIB is preferentially utilized in transcripts from tendon,disease:Defects in COL11A1 are the cause of Marshall syndrome [MIM:154780]. It is an autosomal dominant disorder with ocular, orofacial, auditory and skeletal manifestations. It shares several features with Stickler syndrome, such as midfacial hypoplasia, high myopia, and sensorineural-hearing deficit.,disease:Defects in COL11A1 are the cause of Stickler syndrome type 2 (STL2) [MIM:604841]; also known as Stickler syndrome vitreous type 2. STL2 is an autosomal dominant form of Stickler syndrome, an inherited disorder that associates ocular signs with more or less complete forms of Pierre Robin sequence, bone disorders and sensorineural deafness. Ocular disorders may include juvenile cataract, myopia, strabismus, vitreoretinal or chorioretinal degeneration, retinal detachment, and chronic uveitis. Robin sequence includes an opening in the roof of the mouth (a cleft palate), a large tongue (macroglossia), and a small lower jaw (micrognathia). Bones are affected by slight platyspondylis and large, often defective epiphyses. Juvenile joint laxity is followed by early signs of arthrosis. The degree of hearing loss varies among affected individuals and may become more severe over time. Syndrome expressivity is variable.,function:May play an important role in fibrillogenesis by controlling lateral growth of collagen II fibrils.,PTM:Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.,similarity:Belongs to the fibrillar collagen family.,similarity:Contains 1 TSP N-terminal (TSPN) domain.,subunit:Trimers composed of three different chains: alpha 1(XI), alpha 2(XI), and alpha 3(XI). Alpha 3(XI) is a post-translational modification of alpha 1(II). Alpha 1(V) can also be found instead of alpha 3(XI)=1(II).,tissue specificity:Cartilage, placenta and some tumor or virally transformed cell lines. Isoforms using exon IIA or IIB are found in the cartilage while isoforms using only exon IIB are found in the tendon.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.