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Product datasheet for AP05390PU-N

Col3a1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC
Recommended Dilution:	Immunohistochemistry on frozen sections. ELISA: 1/1500 - 1/6000. Immunofluorescence.
Reactivity:	Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Collagen type III from rat tail tendon
Specificity:	This antibody is specific for rat Collagen 3 binding to both native and heat denatured collagen 3. This antibody is reactive with rat kidney, liver, skin and heart, but does not stain basement membranes.
Formulation:	Contains mannitol, dextran and salts State: Purified State: Lyophilised purified IgG
Reconstitution Method:	Reconstitute in 0.5 ml of distilled water.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen, type III, alpha 1
Database Link:	Entrez Gene 84032 Rat P13941

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Background: Collagens are highly conserved throughout evolution and are characterized by an uninterrupted "Glycine-X-Y" triplet repeat that is a necessary part of the triple helical structure. For these reasons it is often extremely difficult to generate antibodies with specificities to collagens. The development of type specific antibodies is dependent on NON DENATURED three dimensional epitopes. This may result in diminished reactivity of some antibodies with denatured collagen or formalin fixed, paraffin embedded tissues.
Type II collagen is a fibrillar collagen found in cartilage and the vitreous humor of the eye. Collagen type II is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C propeptide of this collagen molecule, are also associated with chondrodysplasia. There are two transcripts identified for this gene.

Synonyms: COL3A1