Recombinant Anti-COL2A1 Antibody (V3S-0522-YC719)

Cat. No.: V3S-0522-YC719

Summary

Description	This product is a monoclonal antibody derived from Mouse (*Mus musculus*), which can specif ically recognize Collagen type II alpha 1 chain. The antibody is expressed with mammalian ce ll transient expression system, serum-free and purified by affinity chromatography. The purity and integrity are tested via SDS-PAGE and SEC-HPLC analysis. Given an antigen, additional QC measures are also desired such as affinity testing and binding validation. Specifically, the antibody is provided in multiple formats for in vivo and in vitro assays. The *In vivo* version features greater than 95% purity, ultra-low endotoxin levels (<1 EU/mg or 0.1 E U/mg), and is preservative, stabilizer, and carrier protein-free.
Clonality	Monoclonal
Host Species	Mouse
Target Species	Mouse
Isotype	IgG
Isotype Control	C35500
Secondary Antibody	C47504; C37557; C41360; C32672; C10001; C13172; C32251; C50005

Property

Expression Species	HEK293F or CHO
Conjugation	None
Purity	>95%, determined by SDS-PAGE and/or SEC-HPLC
Endotoxin	<1 EU/mg, determined by LAL method
Purification	Protein A affinity purified
Sterility	0.2 μM filtered
Formulation	PBS, pH 7.4
Preservation	No preservatives
Stabilizer	No stabilizers
Storage	Store at 4^{0}C within a week. For longer storage, aliquot and store at -20^{0}C.

Applications

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Application	ELISA; IHC
Application Notes	The antibody is recommended for detection of COL2A1 by ELISA, IHC assays.

Target

Target	COL2A1
Alternative Name	COL2A1; collagen type II alpha 1 chain; AOM; ANFH; SEDC; STL1; COL11A3
Gene ID	12824
UniProt	P28481
Introduction	COL2A1 (Collagen Type II Alpha 1 Chain) is a Protein Coding gene. Diseases associated wit h COL2A1 include Spondyloepimetaphyseal Dysplasia, Strudwick Type and Legg-Calve-Pert hes Disease. This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen foun d in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with ac hondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetap hyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium b inding protein that is the C-propeptide of this collagen molecule, are also associated with cho ndrodysplasia.
Research Area	Signal Pathway
Related Disease	Rheumatoid arthritis (RA)

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