

COL2A1 monoclonal antibody, clone II-4C11

Catalog # MAB6615

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native COL2A1.
Immunogen	Native purified human COL2A1.
Host	Mouse
Reactivity	Human
Specificity	This antibody reacts specifically with human costal cartilage type II collagen.
Form	Liquid
Isotype	IgG1, kappa
Recommend Usage	Western Blot (2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-10 ug/mL) Immunohistochemistry (Frozen sections) (1-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 100 mM sodium phosphate buffer, pH 7.0 (1% protease-free BSA)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)
- Enzyme-linked Immunoabsorbent Assay

Gene Info — COL2A1

Entrez GeneID	1280
Gene Name	COL2A1
Gene Alias	ANFH, AOM, COL11A3, MGC131516, SEDC
Gene Description	collagen, type II, alpha 1
Omim ID	108300 120140 132450 151210 156550 165720 183900 184250 184252 200610 215150 271700 608805
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen found in cartilage and the vitreous humor of the eye. 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. [provided by RefSeq]
Other Designations	OTTHUMP00000195063 cartilage collagen chondrocalcin collagen II, alpha-1 polypeptide

Publication Reference

- [Collagen heterogeneity in human cartilage: identification of several new collagen chains.](#)

Burgeson RE, Hollister DW.

Biochemical and Biophysical Research Communications 1979 Apr; 87(4):1124.

Pathway

- [ECM-receptor interaction](#)
- [Focal adhesion](#)

Disease

- [Asthma](#)
- [Cardiovascular Diseases](#)

- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cumulative Trauma Disorders](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Gaucher disease](#)
- [Genetic Predisposition to Disease](#)
- [Hip Dislocation](#)
- [Intervertebral Disk Displacement](#)
- [Legg-Perthes Disease](#)
- [Myopia](#)
- [Occupational Diseases](#)
- [Osteoarthritis](#)
- [Thrombophilia](#)
- [Toxoplasmosis](#)