COL1A2 monoclonal antibody, clone 2A3

Catalog # MAB5600 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native COL1A2.
Immunogen	Native human COL1A2.
Host	Mouse
Reactivity	Human
Specificity	Reacts with human Type I collagen.
Form	Liquid
Isotype	IgG2b
Recommend Usage	Immunohistochemistry (2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 100 mM BBS, pH 8.2
Storage Instruction	Store at 4°C.

Applications

- Immunohistochemistry (Frozen sections)

Gene Info — COL1A2

Entrez GeneID	1278
Gene Name	COL1A2
Gene Alias	OI4

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Gene Description	collagen, type I, alpha 2
Omim ID	120160 130060 166710 259420
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the pro-alpha2 chain of type I collagen whose triple helix comprises two alpha 1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with o steogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIB, recessive Ehlers-Danlos sy ndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms assoc iated with mutations in this gene, however, tend to be less severe than mutations in the gene for th e alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix i ntegrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been i dentified for this gene. [provided by R. Dalgleish
Other Designations	alpha 2 type I collagen|alpha 2(I)-collagen|alpha-2 collagen type I|collagen I, alpha-2 polypeptide|c ollagen of skin, tendon and bone, alpha-2 chain|type I procollagen

Pathway

- ECM-receptor interaction
- Focal adhesion

Disease

- Body Weight
- Cardiovascular Diseases
- Carotid Stenosis
- Chorioamnionitis
- Chronic Disease
- Connective Tissue Diseases
- Diabetes Mellitus
- Disease Susceptibility
- Edema
- Femoral Neck Fractures

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- Fetal Diseases
- Fetal Membranes
- Fluorosis
- Fractures
- Genetic Predisposition to Disease
- Hearing Loss
- Hypertension
- Inflammation
- Intervertebral Disk Displacement
- Intracranial Aneurysm
- Kidney Diseases
- Kidney Failure
- Mouth Neoplasms
- Musculoskeletal Diseases
- Obstetric Labor
- Oral Submucous Fibrosis
- Osteogenesis Imperfecta
- Osteoporosis
- Otosclerosis
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Pulmonary Disease
- Skin Diseases
- Stroke

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- Werner syndrome

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