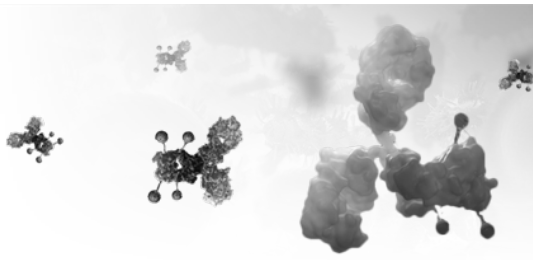

Mouse anti-Human COL1A2 monoclonal antibody, clone 3B4 (CABT-B10006)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Reacts with human Type I collagen.
Immunogen	Native human COL1A2.
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	3B4
Conjugate	Unconjugated
Applications	IHC
Format	Liquid
Buffer	In 100 mM BBS, pH 8.2
Storage	Store at 4°C.

BACKGROUND

Introduction	This gene encodes the pro-alpha2 chain of type I collagen whose triple helix comprises two alpha1 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 osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan

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	syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish, Feb 2008]
Keywords	COL1A2; collagen, type I, alpha 2; OI4; collagen alpha-2(I) chain; type I procollagen; alpha 2(I)-collagen; alpha-2 type I collagen; collagen I, alpha-2 polypeptide; collagen of skin, tendon and bone, alpha-2 chain;

GENE INFORMATION

Entrez Gene ID	1278
UniProt ID	P08123
Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Axon guidance, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem;
Function	SMAD binding; extracellular matrix structural constituent; identical protein binding; platelet-derived growth factor binding; protein binding; protein binding, bridging;

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