IHCAb™ Collagen Type I mouse mAb (BGT162)

Cat #: B-IMW6940

Size: 100 µL

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

Background

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 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.

Product Information

Applications/Dilution: IHC-p 1:100-500, WB 1:200-1000, IF 1:100-500

Isotype/Source: Mouse, Monoclonal/IgG2b, Kappa

Specificity: The antibody can specifically recognize human Collagen Type I protein, collagen types II, III, IV and V do not respond to the anbody

Subcellular Location: Secreted, extracellular space, extracellular matrix

Expression: Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.61% sodium azide

Storage: Store at -15°C to -25°C

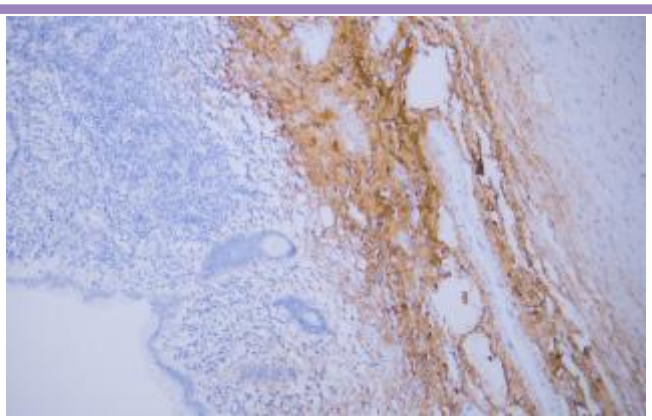

Fig. Human appendix tissue was stained with Anti-Collagen Type I Antibody.

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.