Recombinant Collagen I alpha 1 Monoclonal Antibody

Catalog Number:E-AB-81499 1 Publications

Note: Centrifuge before opening to ensure complete recovery of vial contents.

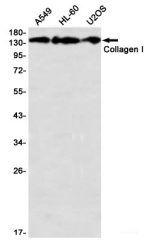
Description

Reactivity	Human
Immunogen	Recombinant protein of human Collagen I
Host	Rabbit
Isotype	IgG
Clone	R02-5E5
Purification	Affinity Purified
Conjugation	Unconjugated
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein

Applications Recommended Dilution

WB	1:500-1:1000

Data



Western blot detection of Collagen I in A549,HL-60,U2OS using Collagen I Rabbit mAb(1:1000 diluted)
Observed Mw:139kDa
Calculated Mw:139kDa

Preparation & Storage

Storage	Store at -20℃. Avoid freeze / thaw cycles.

Background

COL1A1 (Collagen Type I Alpha 1 Chain) is a Protein Coding gene. Diseases associated with COL1A1 include Caffey Disease and Osteogenesis Imperfecta, Type I. Among its related pathways are Collagen chain trimerization and Transcription_Role of VDR in regulation of genes involved in osteoporosis. GO annotations related to this gene include identical protein binding and platelet-derived growth factor binding. An important paralog of this gene is COL2A1.This gene encodes the pro-alpha1 chains 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 VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.

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