

COL1A1 Propeptide Antibody

Lot Number: RJ2281701

Product Data Sheet

Tested Species Reactivity

Human (Hu)
Mouse (Ms)
Rat (Rt)

Details

Catalog Number:	PA5-35379
Size:	100 µL
Class:	Polyclonal
Type:	Antibody
Clone:	
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic peptide corresponding to amino acid residues specific to human collagen 1, alpha 1 propeptide conjugated to KLH

Tested Applications

Dilution *

Western Blot (WB)	1:1000
Immunofluorescence (IF)	1:100
Immunocytochemistry (ICC)	1:100
Immunohistochemistry (IHC)	1:100

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Form Information

Form:	Liquid
Concentration:	Lot-specific
Purification:	Affinity chromatography
Storage Buffer:	10mM HEPES, pH 7.5, with 150mM NaCl, 100µg/ml BSA, 50% glycerol
Preservative:	no preservative
Storage Conditions:	-20°C

Product Specific Information

This antibody is predicted to react with most mammals, birds, amphibians and fish based on 100% sequence homology.

This antibody contains enough material to conduct 10 mini-Western blots.

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General Information

Type I collagen is a triple helix comprised of two alpha-1 chains and one alpha-2 chain. Type I collagen is a member of group I collagen (fibril-forming collagen) found in most connective tissues, and is abundant in bone, cornea, dermis and tendon. Mutations in the COL1A1 gene encoding the alpha-1 chain are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Mutations in the COL1A2 gene encoding the alpha-2 chain 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 COL1A1 gene, reflecting the different role of alpha-2 chains in matrix integrity.

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