



Anti-COL1A1 polyclonal antibody (CPBT-67923RR)

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

PRODUCT INFORMATION

Product	Overview	

This product is specific for both native and heat denatured rat Collagen type I. Collagen is located in the extracellular matrix of connective tissues. It is part of the interacting network of proteoglycans and proteins that provides a structural framework for both soft and calcified connective tissues. Type I collagen (95 kDa) is found in bone, cornea, skin and tendon. Mutations in the encoding gene are associated with osteogenesis imperfecta, Ehlers Danlos syndrome, and idiopathic osteoporosis. Immunohistology It has been reported that this antibody is suitable for use on paraffin embedded formalin fixed sections following treatment with 1 mg/ml pepsin in 0.5 M acetic acid for 2 hours at 37°C and multiple buffer washes.

Specificity	COLLAGENI
Immunogen	Type I Collagen from rat tail tendon
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat
Conjugate	Unconjugated
Applications	IHC-Fr; ELISA; IF; IHC-P
Format	Purified IgG - lyophilised
Size	500 μΙ
Preservative	None
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

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GENE INFORMATION

type I-alpha 1 collagen; collagen, type 1, alpha 1; procollagen type I, alpha 1; procollagen, type 1, alpha 1; procollagen 1; procollagen 1; procollagen 1, alpha 1; procollagen 1; procollagen 1, alpha 1; procollagen 1, alpha	Gene Name	Col1a1 collagen, type I, alpha 1 [Rattus norvegicus (Norway rat)]	
type I-alpha 1 collagen; collagen, type 1, alpha 1; procollagen type I, alpha 1; procollagen, type 1, alpha 1; procollagen 1;	Official Symbol	COL1A1	
Protein Refseq NP. 445756 UniProt ID P02466 Chromosome Location 10q31 Pathway Amoebiasis; Assembly of collagen fibrils and other multimeric structures; Binding and Uptake Ligands by Scavenger Receptors; Cardiovascular Signaling; Collagen biosynthesis and modifying enzymes; Collagen formation; ECM-receptor interaction; Extracellular matrix organization; Function extracellular matrix structural constituent; identical protein binding; metal ion binding;	Synonyms	COL1A1; collagen, type I, alpha 1; COLIA1; collagen alpha-1(I) chain; alpha-1 type I collagen; type I-alpha 1 collagen; collagen, type 1, alpha 1; procollagen type I, alpha 1; procollagen, type 1, alpha 1; COLLAGEN I;	
UniProt ID P02466 Chromosome Location 10q31 Pathway Amoebiasis; Assembly of collagen fibrils and other multimeric structures; Binding and Uptake Ligands by Scavenger Receptors; Cardiovascular Signaling; Collagen biosynthesis and modifying enzymes; Collagen formation; ECM-receptor interaction; Extracellular matrix organization; Function extracellular matrix structural constituent; identical protein binding; metal ion binding;	Entrez Gene ID	<u>29393</u>	
Chromosome Location 10q31 Pathway Amoebiasis; Assembly of collagen fibrils and other multimeric structures; Binding and Uptake Ligands by Scavenger Receptors; Cardiovascular Signaling; Collagen biosynthesis and modifying enzymes; Collagen formation; ECM-receptor interaction; Extracellular matrix organization; Function extracellular matrix structural constituent; identical protein binding; metal ion binding;	Protein Refseq	<u>NP_445756</u>	
Pathway Amoebiasis; Assembly of collagen fibrils and other multimeric structures; Binding and Uptake Ligands by Scavenger Receptors; Cardiovascular Signaling; Collagen biosynthesis and modifying enzymes; Collagen formation; ECM-receptor interaction; Extracellular matrix organization; Function extracellular matrix structural constituent; identical protein binding; metal ion binding;	UniProt ID	P02466	
Ligands by Scavenger Receptors; Cardiovascular Signaling; Collagen biosynthesis and modifying enzymes; Collagen formation; ECM-receptor interaction; Extracellular matrix organization; Function extracellular matrix structural constituent; identical protein binding; metal ion binding;	Chromosome Location	10q31	
g,	Pathway	modifying enzymes; Collagen formation; ECM-receptor interaction; Extracellular matrix	
3,7 3,	Function	extracellular matrix structural constituent; identical protein binding; metal ion binding; molecular_function; platelet-derived growth factor binding; protein binding;	