

Rabbit COL1A1 Polyclonal Antibody | anti-COL1A1 antibody

COL1A1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284271	Rabbit	Human, Mouse (Predicted Reactivity: Bovine, Chicken, Rat)	ELISA, Immunohistochemistry, Western Blot

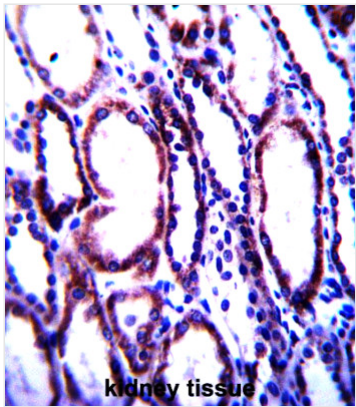
PRODUCT SYNONYMS

COL1A1; Polyclonal Antibody; COL1A1 Antibody (C-term); Collagen alpha-1(I) chain; Alpha-1 type I collagen; anti-COL1A1 antibody

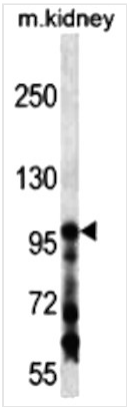
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse (Predicted Reactivity: Bovine, Chicken, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This COL1A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1077-1106 amino acids from the C-terminal region of human COL1A1.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	1077-1106
Applicable Applications for anti-COL1A1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Clone Names	RB33615
Function	Type I collagen is a member of group I collagen (fibrillar forming collagen).
Cellular Location	Secreted, extracellular space, extracellular matrix {ECO:0000255 PROSITE-ProRule:PRU00793}
Tissue Location	Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
COL1A1 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of COL1A1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
COL1A1 Antibody (C-term) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the COL1A1 antibody detected the COL1A1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-COL1A1 antibody	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. [provided by R. Dalgleish].
Product Categories/Family for anti-COL1A1 antibody	Cancer; Signal Transduction
References	Blades, H.Z., et al. Bone 47(5):989-994(2010) Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) : Jin, H., et al. Osteoporos Int (2010) In press : Szczesny, G., et al. Arch Orthop Trauma Surg (2010) In press : Cheung, M.S., et al. J. Bone Miner. Res. (2010) In press :

NCBI AND UNIPROT INFORMATION

NCBI GI #	110349772
NCBI GeneID	1277
NCBI Accession #	NP_000079.2
NCBI GenBank Nucleotide #	NM_000088.3
UniProt Accession #	P02452; O76045; P78441; Q13896; Q13902; Q13903; Q14037; Q14992; Q15176; Q15201; Q16050; Q59F64
Molecular Weight	138941
NCBI Official Full Name	collagen alpha-1(I) chain preproprotein
NCBI Official Synonym Full Names	collagen, type I, alpha 1
NCBI Official Symbol	COL1A1
NCBI Official Synonym Symbols	OI1; OI2; OI3; OI4; EDSC
NCBI Protein Information	collagen alpha-1(I) chain
UniProt Protein Name	Collagen alpha-1(I) chain

UniProt Gene Name	COL1A1
UniProt Entry Name	CO1A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/col1a1-antibody-immunohistochemistry-western-blot-elisa/284271>