

Rabbit Collagen Polyclonal Antibody | anti-COL1A1 antibody

Anti-Collagen I Antibody

CATALOG # AAA46613	HOST Rabbit	REACTIVITY Human No cross reactivity with other proteins.	APPLICATIONS Immunohistochemistry, Western Blot
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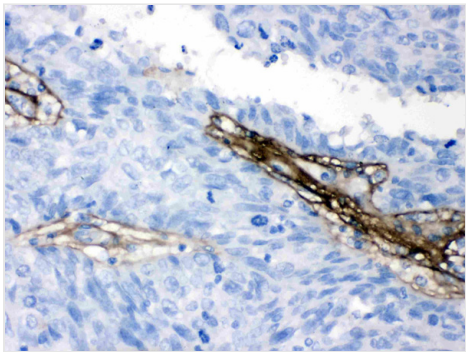
PRODUCT SYNONYMS

Collagen; Polyclonal Antibody; Anti-Collagen I Antibody; Alpha 1 type I collagen; Alpha 2 type I collagen; Alpha-1 type I collagen; CO1A1; COL1A1; Collagen alpha-1 chain; Collagen alpha1(I) chain; Collagen alpha-1(I) chain; Collagen I; Collagen Type 1; Collagen type I alpha 1; Collagen type I alpha 2; collagen; type I; alpha 1; OI4; Pro alpha 1(I) collagen; Type I procollagen; P02452 ; anti-COL1A1 antibody

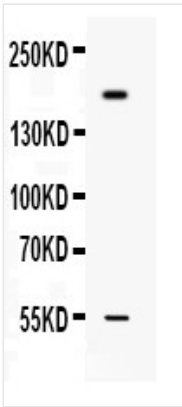
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	1464
Applicable Applications for anti-COL1A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Collagen I (1194-1218aa AGFDFSFLPQPPQEKAHDGGYYRA), different from the related mouse and rat sequences by four amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Collagen I was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- Collagen I Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of Collagen I expression in MCF-7 whole cell lysates (lane 1). Collagen I at 180KD;55KD was detected using rabbit anti- Collagen I Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-COL1A1 antibody	Collagen, type I, alpha 1, also known as COL1A1, is a human gene that encodes the major component of type I collagen, the fibrillar collagen found in most connective tissues, including cartilage. This gene is mapped to 17q21.33. And 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.
References	1. Aihara, M., Lindsey, J. D., Weinreb, R. N. Ocular hypertension in mice with a targeted type I collagen mutation. Invest. Ophthal. Vis. Sci. 44: 1581-1585, 2003. 2. Cabral, W. A., Makareeva, E., Colige, A., Letocha, A. D., Ty, J. M., Yeowell, H. N., Pals, G., Leikin, S., Marini, J. C. Mutations near amino end of alpha-1(I) collagen cause combined osteogenesis imperfecta/Ehlers-Danlos syndrome by interference with N-propeptide processing. J. Biol. Chem. 280: 19259-19269, 2005.

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	138,941 Da
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/collagen-antibody-immunohistochemistry-western-blot-elisa/46613>