

Rabbit Collagen I Polyclonal Antibody | anti-COL1A2 antibody

Collagen I Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320781	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

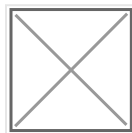
PRODUCT SYNONYMS

Collagen I; Polyclonal Antibody; Collagen I Antibody; Alpha 1 type I collagen; Alpha 2 type I collagen; alpha 2 type I procollagen; alpha 2(I) procollagen; alpha 2(I)-collagen; Alpha-1 type I collagen; alpha1(I) procollagen; CO1A1_HUMAN; COL1A1; COL1A2; collagen alpha 1 chain type I; Collagen alpha-1(I) chain; collagen alpha-1(I) chain preproprotein; Collagen I alpha 1 polypeptide; Collagen I alpha 2 polypeptide; collagen of skin; tendon and bone; alpha-1 chain; alpha-2 chain; Collagen type I alpha 1; Collagen type I alpha 2; EDSC; OI1; OI2; OI3; OI4; pro-alpha-1 collagen type 1; type I proalpha 1; type I procollagen alpha 1 chain; Type I procollagen; anti-COL1A2 antibody

PRODUCT SPECIFICATIONS

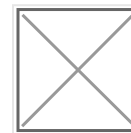
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Collagen I antibody detects endogenous levels of Collagen I
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1366
Applicable Applications for anti-COL1A2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Collagen I
Subcellular Location	Secreted > Extracellular Space > Extracellular Matrix.
Tissue Specificity	Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA320781 staining BJ cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA320781 at 1/100 staining Human Melanoma tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Collagen I Antibody expression in Mouse skin tissue lysates. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA320781 at 1/100 staining human colon cancer tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours

ADDITIONAL INFORMATION

Related Product Information for anti-COL1A2 antibody

Description: This gene encodes one of the chains for type I collagen, the fibrillar collagen found in most connective tissues. Mutations in this gene are associated with osteogenesis imperfecta, Ehlers-Danlos syndrome, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for alpha-1 type I collagen since alpha-2 is less abundant. Multiple messages for this gene result from multiple polyadenylation signals, a feature shared by most of the other collagen genes.

Function: Type I collagen is a member of group I collagen (fibrillar forming collagen).

Subunit Structure: Trimers of one alpha 2(I) and two alpha 1(I) chains.

Post-translational Modifications: Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.

Similarity: The C-terminal propeptide, also known as COLFI domain, have crucial roles in tissue growth and repair by controlling both the intracellular assembly of procollagen molecules and the extracellular assembly of collagen fibrils. It binds a calcium ion which is essential for its function. Belongs to the fibrillar collagen family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	48762934
NCBI GeneID	1278
NCBI Accession #	NP_000080.2
NCBI GenBank Nucleotide #	NM_000089.3
UniProt Accession #	P08123; P02464; Q13897; Q13997; Q13998; Q14038; Q14057; Q15177; Q15947; Q16480; Q16511; Q7Z5S6
Molecular Weight	Observed: 129 kDa Predicted: 130 kDa
NCBI Official Full Name	collagen alpha-2(I) chain
NCBI Official Synonym Full Names	collagen type I alpha 2 chain
NCBI Official Symbol	COL1A2
NCBI Official Synonym Symbols	OI4; EDSCV; EDSARTH2
NCBI Protein Information	collagen alpha-2(I) chain
UniProt Protein Name	Collagen alpha-2(I) chain
UniProt Gene Name	COL1A2

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/collagen-i-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320781>