

Rabbit anti-Human, Mouse Collagen I alpha2 Polyclonal Antibody | anti-COL1A2 antibody

Collagen I alpha2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324238	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

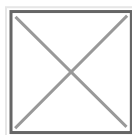
PRODUCT SYNONYMS

Collagen I alpha2; Polyclonal Antibody; Collagen I alpha2 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

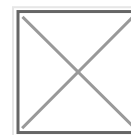
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Collagen I alpha2 antibody detects endogenous levels of total Collagen I alpha2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate 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
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



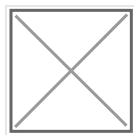
IHC (Immunohistochemistry)

AAA324238 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.

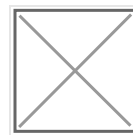


IF (Immunofluorescence)

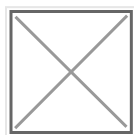
AAA324238 staining 293T by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

**WB (Western Blot)**

Western blot analysis of extracts from HepG2, using Collagen I alpha2 Antibody.

**WB (Western Blot)**

Western blot analysis of extracts from 293 cells, using Collagen I alpha2 antibody.

**WB (Western Blot)**

Western blot analysis of extracts from mouse muscle, using Collagen I alpha2 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-COL1A2 antibody

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: 125 kD 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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/collagen-i-alpha2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/324238>