

Rabbit Collagen Type I Polyclonal Antibody | anti-COL1A1 antibody

Collagen Type I antibody (biotin)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA74941	Rabbit	Reacts with Human, Bovine, Rat, and Mouse. Less than 0.1% cross-reactivity with Type II, III, IV, V, or VI Collagens.	Western Blot, Immunoprecipitation, Immunohistochemistry, ELISA

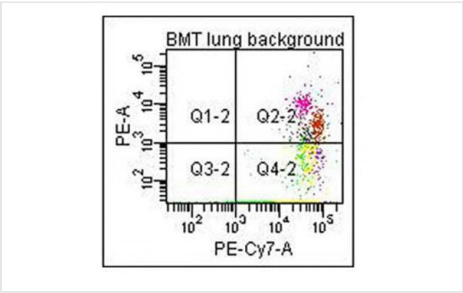
PRODUCT SYNONYMS

Collagen Type I; Polyclonal Antibody; Collagen Type I antibody (biotin); Polyclonal Collagen Type I; Anti-Collagen Type I; OI4; Collagen type I alpha 2; Osteogenesis Imperfecta Type IV; Collagen type I alpha 1; Collagen Of Skin Tendon And Bone; Collagen Type 1; anti-COL1A1 antibody

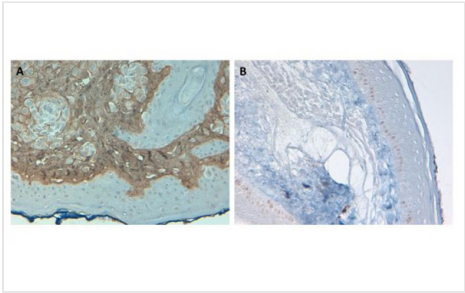
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Reacts with Human, Bovine, Rat, and Mouse. Less than 0.1% cross-reactivity with Type II, III, IV, V, or VI Collagens.
Clonality	Polyclonal
Specificity	Bovine/Human collagen type I
Purity/Purification	Collagen type I antibody (biotin) was purified by affinity chromatography.
Form/Format	Supplied a lyophilized from 20mM Potassium Phosphate, 150mM Sodium Chloride, pH 7.2, with 10 mg/ml BSA and 0.01% Sodium Azide as a preservative. Reconstitute with 0.1ml of deionized water.
Concentration	1.0 mg/ml (by UV absorbance at 280 nm) after reconstitution. (varies by lot)
Sequence Length	885
Applicable Applications for anti-COL1A1 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA
Immunogen	Collagen Type I from human and bovine placenta
Bioactivity	Some class specific anti-collagens may be specific for three-dimensional epitopes which may result in diminished reactivity with denatured collagen or formalin-fixed, paraffin embedded tissues.
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.
Preparation and Storage	Store at 4°C prior to reconstitution. Stable at 4°C as an undiluted liquid. For longer storage mix with an equal volume of glycerol and store at -20°C.

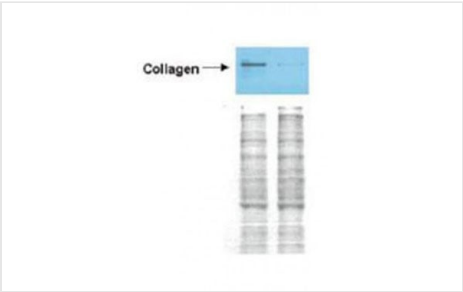
IMAGES



FCM/FACS (Flow Cytometry)
FACS analysis of mouse lung cells. Collagen type I antibody (biotin) detected with PE-conjugated CD45 and PE-conjugated collagen type I secondary antibody.



IHC (Immunohistochemistry)
Tissue: Human Skin at pH9. Fixation: formalin fixed paraffin embedded. Collagen Type I antibody at 10 ug/mL for 1 h at RT. Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Collagen Type I is secreted in the extracellular matrix. Staining: Collagen Type I as precipitated brown signal (A) with hematoxylin purple nuclear counterstain. With corresponding negative control (B).



WB (Western Blot)
Western Blot of Collagen I antibody. Lane 1: Wistar rat hepatic stellate cells (HSC) in control (GFP-transduced). Lane 2: PPARγ-transduced cell lysates. Load: 100 ug per lane. Protein staining shown below each blot depicts equal protein loading. anti-Collagen I antibody at 0.22 ug/10 ml for overnight at 4 deg C. horseradish peroxidase-conjugated rabbit secondary antibody at 1 ug/10 ml for overnight at 4 deg C. Block: TBS with 5% Non-fat milk. Size: 138.9 kDa for Collagen I.

ADDITIONAL INFORMATION

Related Product Information for anti-COL1A1 antibody	Collagen is a group of naturally occurring proteins found, in nature, exclusively in animals, especially in the flesh and connective tissues of mammals. It is the main component of connective tissue, and is the most abundant protein in mammals, making up about 25% to 35% of the whole-body protein content. Type-I collagen is the most abundant collagen of the human body. It is present in scar tissue, the end product when tissue heals by repair. It is found in tendons, the endomysium of myofibrils and the organic part of bone.
Product Categories/Family for anti-COL1A1 antibody	Cell Biology; Conjugated Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	119615037
NCBI GeneID	1277
UniProt Accession #	P02452 ; O76045 ; P78441 ; Q13896 ; Q13902 ; Q13903 ; Q14037 ; Q14992 ; Q15176 ; Q15201 ; Q16050 ; Q59F64
NCBI Official Full Name	collagen, type I, alpha 1, isoform CRA_a
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-type-i-antibody-western-blot-immunoprecipitation-immunohistochemistry-elisa/74941>