

# Rabbit Collagen 1 alpha 1 Polyclonal Antibody | anti-COL1A1 antibody

Collagen 1 alpha 1 Antibody

|                               |                       |                                                             |                                                                              |
|-------------------------------|-----------------------|-------------------------------------------------------------|------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA269082</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat, Bovine, Dog, Rabbit</b> | APPLICATIONS<br><b>Immunocytochemistry, Immunofluorescence, Western Blot</b> |
|-------------------------------|-----------------------|-------------------------------------------------------------|------------------------------------------------------------------------------|

## PRODUCT SYNONYMS

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

## PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                         |
| Reactivity                                       | Human, Mouse, Rat, Bovine, Dog, Rabbit                                                                         |
| Clonality                                        | Polyclonal                                                                                                     |
| Isotype                                          | IgG                                                                                                            |
| Specificity                                      | Recognizes endogenous levels of Collagen 1 alpha 1 protein.                                                    |
| Purity/Purification                              | The antibody was purified by immunogen affinity chromatography.                                                |
| Form/Format                                      | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.      |
| Applicable Applications for anti-COL1A1 antibody | ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                          |
| Immunogen                                        | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Collagen 1 alpha 1. |
| Preparation and Storage                          | Store at -20 degree C for one year. Avoid freeze/thaw cycles.                                                  |

## IMAGES



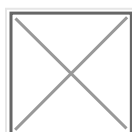
### IHC (Immunohistochemistry)

Immunohistochemical analysis of Collagen 1 alpha 1 staining in human lung formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



### IF (Immunofluorescence)

Immunofluorescent analysis of Collagen 1 alpha 1 staining in SGC7901 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 degree C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF555 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



### WB (Western Blot)

Western blot analysis of Collagen 1 alpha 1 expression in EC9706 (A), A375 (B), SGC7901 (C), Hela (D), HEK293T (E) whole cell lysates. (Predicted band size: 138 kD; Observed band size: 130 kD).

ADDITIONAL INFORMATION

|                                                      |                                                  |
|------------------------------------------------------|--------------------------------------------------|
| Related Product Information for anti-COL1A1 antibody | Rabbit polyclonal antibody to Collagen 1 alpha 1 |
| Product Categories/Family for anti-COL1A1 antibody   | Primary Antibody                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 296439504                                                                                                                                                                                                                            |
| NCBI GeneID                      | 1277                                                                                                                                                                                                                                 |
| UniProt Accession #              | P02452; O76045; P78441; Q13896; Q13902; Q13903; Q14037; Q14992; Q15176; Q15201; Q16050; Q59F64                                                                                                                                       |
| NCBI Official Full Name          | Collagen alpha-1(I) chain                                                                                                                                                                                                            |
| NCBI Official Synonym Full Names | collagen, type I, alpha 1                                                                                                                                                                                                            |
| NCBI Official Symbol             | COL1A1                                                                                                                                                                                                                               |
| NCBI Official Synonym Symbols    | OI4                                                                                                                                                                                                                                  |
| NCBI Protein Information         | collagen alpha-1(I) chain; collagen alpha-1(I) chain; alpha-1 type I collagen; pro-alpha-1 collagen type 1; collagen alpha 1 chain type I; collagen alpha-1(I) chain preproprotein; collagen of skin, tendon and bone, alpha-1 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-1-alpha-1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/269082>