

Rabbit Collagen II Polyclonal Antibody | anti-COL2A1 antibody

Collagen II Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320782	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

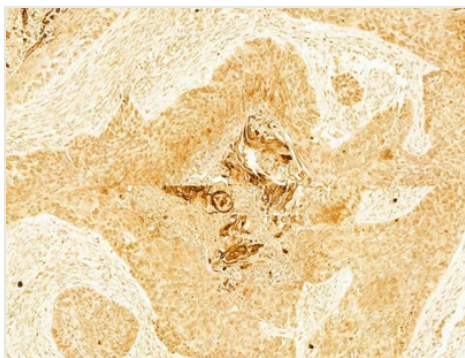
PRODUCT SYNONYMS

Collagen II; Polyclonal Antibody; Collagen II Antibody; Alpha 1 type II collagen; Collagen II alpha 1 polypeptide; Procollagen type II alpha 1; anti-COL2A1 antibody

PRODUCT SPECIFICATIONS

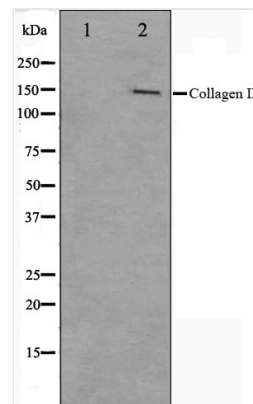
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Collagen II antibody detects endogenous levels of total Collagen II
Purity/Purification	Peptide affinity purification
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1487
Applicable Applications for anti-COL2A1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Collagen II, corresponding to a region within N-terminal amino acids.
Tissue Specificity	Isoform 2 is highly expressed in juvenile chondrocyte and low in fetal chondrocyte.
Preparation and Storage	Store at -20°C. Stable for up to 12 months from date of receipt.

IMAGES



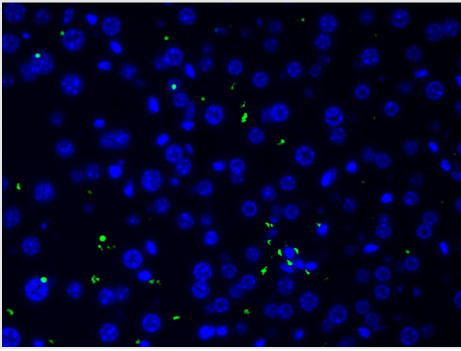
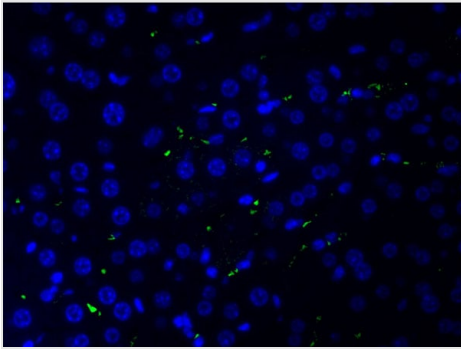
IHC (Immunohistochemistry)

AAA320782 at 1/100 staining Human lung cancer 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis on COLO205 cell lysate using Collagen II Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
 AAA320782 at 1/200 staining human liver tissue cells by ICC/IF. Cells were formaldehyde fixed, permeabilized by Triton X-100 and blocked 5% BSA for 30 minutes at room temperature. The sample was incubated with the primary antibody (1/200 in BSA) for 1 hour. An Alexa Fluor 488-conjugated Goat anti-rabbit antibody was used as the secondary.

IF (Immunofluorescence)
 AAA320782 at 1/200 staining human liver tissue cells by ICC/IF. Cells were formaldehyde fixed, permeabilized by Triton X-100 and blocked 5% BSA for 30 minutes at room temperature. The sample was incubated with the primary antibody (1/200 in BSA) for 1 hour. An Alexa Fluor 488-conjugated Goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
 AAA320782 staining COLO205 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.

ADDITIONAL INFORMATION

Related Product Information for anti-COL2A1 antibody	COL2A1 Type II collagen is specific for cartilaginous tissues. It is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces. Belongs to the fibrillar collagen family. Homotrimers of alpha 1(II) chains. 3 isoforms of the human protein are produced by alternative splicing.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	111118976
NCBI GeneID	1280
NCBI Accession #	NP_001835.3
NCBI GenBank Nucleotide #	NM_001844.4
UniProt Accession #	P02458; Q12985; Q14009; Q14044; Q14045; Q14046; Q14047; Q14056; Q14058; Q16672; Q1JQ82; A6NGA0
Molecular Weight	140 kDa
NCBI Official Full Name	collagen alpha-1(II) chain isoform 1
NCBI Official Synonym Full Names	collagen type II alpha 1 chain
NCBI Official Symbol	COL2A1
NCBI Official Synonym Symbols	AOM; ANFH; SEDC; STL1; COL11A3

NCBI Protein Information	collagen alpha-1(II) chain
UniProt Protein Name	Collagen alpha-1(II) chain
UniProt Gene Name	COL2A1

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-ii-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320782>