

Rabbit anti-Human Collagen I Monoclonal Antibody | anti-COL1A2 antibody

Anti-Collagen I Rabbit Monoclonal Antibody

CATALOG # AAA46969	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot, Immunohistochemistry
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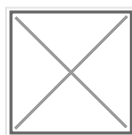
PRODUCT SYNONYMS

Collagen I; Monoclonal Antibody; Anti-Collagen I Rabbit Monoclonal Antibody; Collagen alpha-2(I) chain; Alpha-2 type I collagen; COL1A2; anti-COL1A2 antibody

PRODUCT SPECIFICATIONS

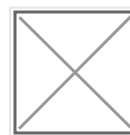
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Purity/Purification	Affinity-chromatography
Form/Format	Liquid
Sequence Length	1,366
Applicable Applications for anti-COL1A2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human Collagen I
Subcellular Localization	Secreted, extracellular space, extracellular matrix.
Tissue Specificity	Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite.
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Western blot analysis of Collagen I in Human stomach tissue lysate (AAA46969). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-COL1A2 monoclonal antibody overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for COL1A2



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human kidney, using Collagen I Antibody(AAA46969)COL1A2 was detected in paraffin-embedded tissue section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-COL1A2 Antibody (AAA46969)overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-COL1A2 antibody	Type I collagen is a member of group I collagen (fibrillar forming collagen).
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Product Categories/Family for anti-COL1A2 antibody

Signal Transduction; Cytoskeleton/ECM; Extracellular Matrix; ECM Proteins; Collagen; Signal Transduction; Growth Factors/Hormones; TGF; Stem Cells; Mesenchymal Stem Cells; osteogenesis

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	129314 MW
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/monoclonal/collagen-i-antibody-western-blot-immunohistochemistry-elisa/46969>