

Datasheet for ABIN372600
anti-Collagen Type I antibody



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2 Images

Overview

Quantity:	0.1 mL
Target:	Collagen Type I (COL1)
Reactivity:	Human, Mouse, Mammalian, Fish, Sheep, Amphibian, Avian
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Collagen Type I antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Peptide from the Human Collagen I Alpha-1 telopeptide sequence.
Isotype:	IgG
Specificity:	Specific for the ~140 kDa telopeptide portion of the Collagen I Alpha-1 polypeptide.
Cross-Reactivity (Details):	Species reactivity (expected):all Mammals, Birds and Amphibians. Species reactivity (tested):Human, Mouse, Rat and Sheep.
Purification:	Affinity Chromatography.

Target Details

Target:	Collagen Type I (COL1)
Alternative Name:	Collagen Type I (COL1 Products)
Background:	Collagen is the most abundant protein in mammals with type 1 collagen being the most

Target Details

abundant of the 29 known collagens. Type 1 collagen is integral in the strengthening and structural support of many tissues including skin, tendon, artery walls, fibrocartilage, bone and teeth. Collagens are synthesized with N-terminal and C-terminal propeptides that are cleaved during maturation and secretion. After cleavage of the propeptides, the most N-terminal and C-terminal remaining sequences are known as telopeptides. Mutations in the collagen 1, alpha 1 gene (COL1A1) are known to cause osteogenesis imperfecta (aka brittle bone disease) (Byers 1989). Furthermore, mutations found in the first 90 residues of the helical region of alpha 1 collagen have been implicated in the prevention or delayed removal of the procollagen N-propeptide leading to a combined osteogenesis imperfecta and Ehlers-Danlos syndrome (EDS) phenotype (Cabral et al., 2005).Synonyms: Alpha-1 type I collagen, Alpha-2 type I collagen, COL1A1, COL1A2

Gene ID: 1277

NCBI Accession: [NP_000079](#)

UniProt: [P02452](#)

Application Details

Application Notes: Western Blot: 1/1000. Immunohistochemistry: 1/100. The antibody works well for Immunohistochemistry on Paraformaldehyde-Fixed Sections with a simple antigen-retrieval protocol (incubate slides for 20 minutes at 90 °C in 10 mM sodium citrate (pH 6.0)/ 0.1 % Tween-20). Note that in paraffin sections of Formaldehyde-Fixed fibrotic mouse lung tissue, the antibody recognizes mature collagen I that has formed fibrils in the extracellular matrix. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS without preservatives.

Preservative: Without preservative

Handling Advice: Avoid repeated freezing and thawing.

Storage: -20 °C

Storage Comment: Store the antibody undiluted (in aliquots) at -20 °C.

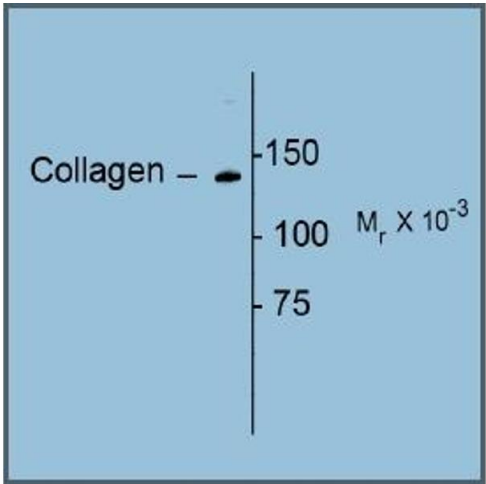


Image 1.

Telo

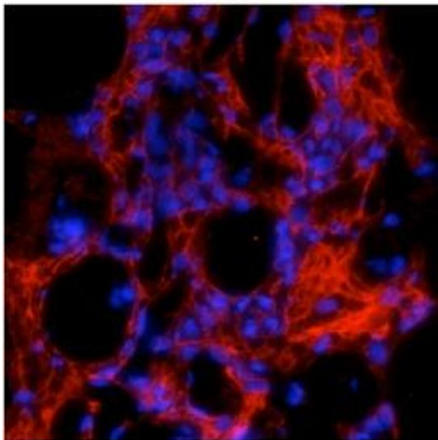


Image 2.