

COL14A1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22329c**Specification**

COL14A1 Antibody (Center) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	Q05707
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	193515

COL14A1 Antibody (Center) - Additional Information**Gene ID** 7373**Other Names**

Collagen alpha-1(XIV) chain, Undulin, COL14A1 (HGNC:2191), UND

Target/Specificity

This COL14A1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 643-677 amino acids from the Central region of human COL14A1.

Dilution

WB~~1:2000
IHC-P~~1:25
FC~~1:25

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

COL14A1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

COL14A1 Antibody (Center) - Protein Information**Name** COL14A1 ([HGNC:2191](#))

Synonyms UND

Function Plays an adhesive role by integrating collagen bundles. It is probably associated with the surface of interstitial collagen fibrils via COL1. The COL2 domain may then serve as a rigid arm which sticks out from the fibril and protrudes the large N-terminal globular domain into the extracellular space, where it might interact with other matrix molecules or cell surface receptors (By similarity).

Cellular Location

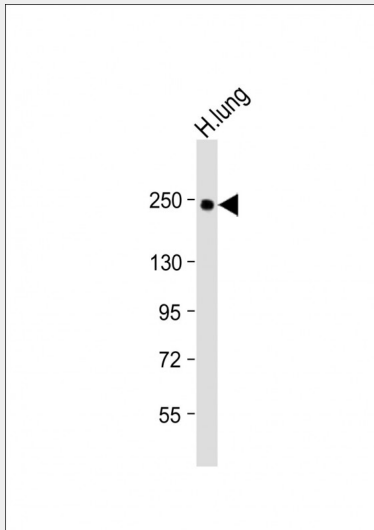
Secreted, extracellular space, extracellular matrix {ECO:0000250|UniProtKB:P32018}

COL14A1 Antibody (Center) - Protocols

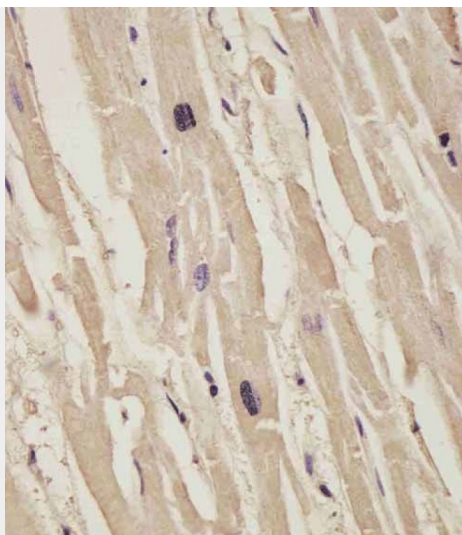
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

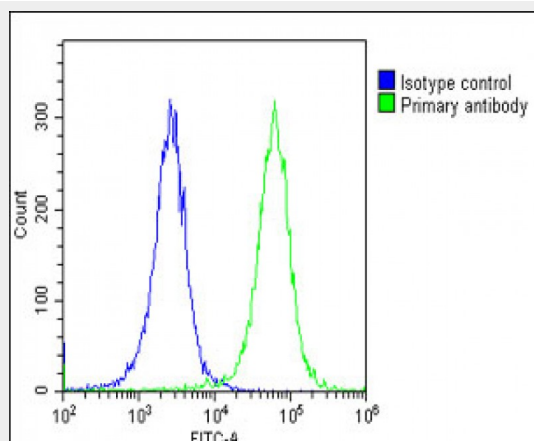
COL14A1 Antibody (Center) - Images



Anti-COL14A1 Antibody (Center) at 1:2000 dilution + Human lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 194 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP22329c staining COL14A1 in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing Hela cells stained with AP22329c (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22329c, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (OE188374) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

COL14A1 Antibody (Center) - Background

Plays an adhesive role by integrating collagen bundles. It is probably associated with the surface of interstitial collagen fibrils via COL1. The COL2 domain may then serve as a rigid arm which sticks out from the fibril and protrudes the large N-terminal globular domain into the extracellular space, where it might interact with other matrix molecules or cell surface receptors (By similarity).

COL14A1 Antibody (Center) - References

Nusbaum C., et al. Nature 439:331-335 (2006).

Bauer M.,et al.Biochim. Biophys. Acta 1354:183-188(1997).
Just M.,et al.J. Biol. Chem. 266:17326-17332(1991).
Brown J.C.,et al.Matrix Biol. 14:287-295(1994).
Schuppan D.,et al.J. Biol. Chem. 265:8823-8832(1990).