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Collagen I Rabbit pAb

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Catalog # AP94681

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P02452
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	138911

Additional Information

Gene ID	1277
Other Names	Collagen alpha-1(I) chain, Alpha-1 type I collagen, COL1A1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug /Test,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

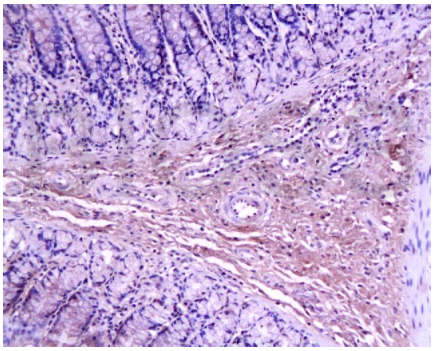
Protein Information

Name	COL1A1
Function	Type I collagen is a member of group I collagen (fibrillar forming collagen).
Cellular Location	Secreted, extracellular space, extracellular matrix {ECO:0000255|PROSITE-ProRule:PRU00793}
Tissue Location	Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are mineralized with calcium hydroxyapatite

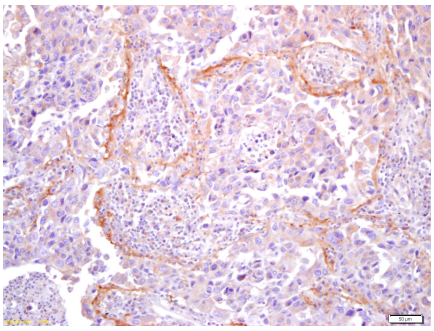
Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

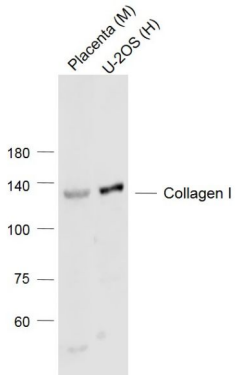
Images



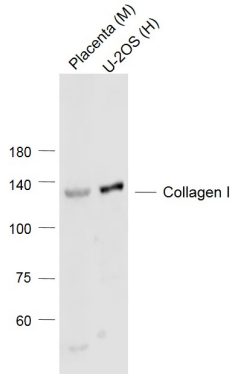
Tissue/cell: rat colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-Collagen I Polyclonal Antibody, Unconjugated(AP94681) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



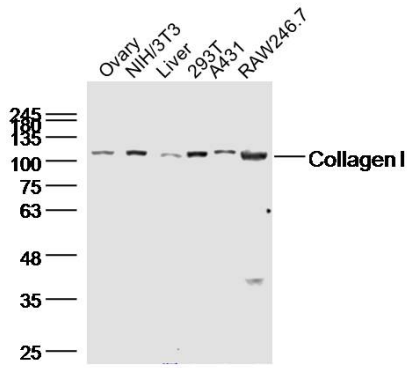
Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-Collagen I Polyclonal Antibody, Unconjugated(AP94681) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



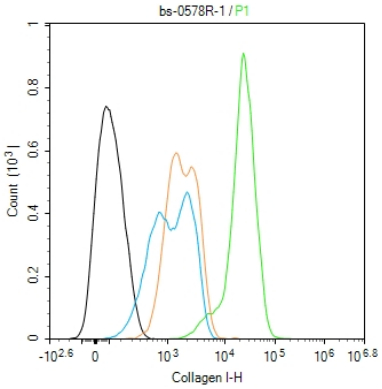
Sample: Lane 1: Placenta (Mouse) Lysate at 40 ug Lane 2: U-2OS (Human) Cell Lysate at 30 ug Primary: Anti-Collagen I (AP94681) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130,110 kD Observed band size: 130 kD



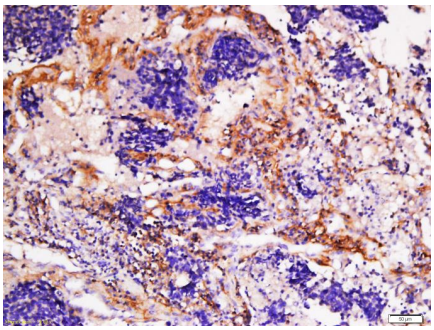
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Sample: Ovary (Mouse) Lysate at 40 ug NIH/3T3(Mouse) Cell Lysate at 40 ug Liver (Rat)Lysate at 40 ug 293T(huamn) Cell Lysate at 40 ug A431(huamn) Cell Lysate at 40 ug RAW264.7(Mouse) Cell Lysate at 40 ug Primary: Anti-Collagen I (AP94681) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130 kD Observed band size: 110 kD



Blank control:Hela. Primary Antibody (green line): Rabbit Anti-Collagen I antibody (AP94681) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20℃.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature.The secondary antibody used for 40 min at room temperature.Acquisition of 20,000 events was performed.



Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Collagen I Polyclonal Antibody, Unconjugated (AP94681) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.