

MAA350Hu21

Monoclonal Antibody to Collagen Type I Alpha 1 (COL1a1)

Organism Species: *Homo sapiens (Human)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Monoclonal antibody preparation

Host: Mouse

Antibody isotype: IgG1 Kappa

Purification: Protein A + Protein G affinity chromatography

Clone number: C1

Traits: Liquid

Concentration: 1mg/mL

UOM: 100μL

Cross Reactivity: N/A

Applications: WB; IHC

[IMMUNOGEN]

Immunogen: Recombinant COL1a1 (Arg253~Ala471) expressed in *E.coli*

Accession No.: RPA350Hu01

[APPLICATIONS]

Western blotting: 0.01-3μg/mL;

Immunohistochemistry: 5-30μg/mL;

Optimal working dilutions must be determined by end user.

[FORMULATION]

Form & Buffer: Supplied as solution form in 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

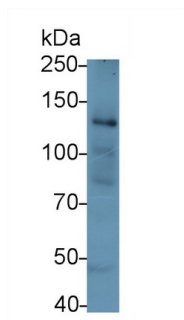
Store at 4°C for frequent use.

Aliquot and store at -20°C for 24 months.

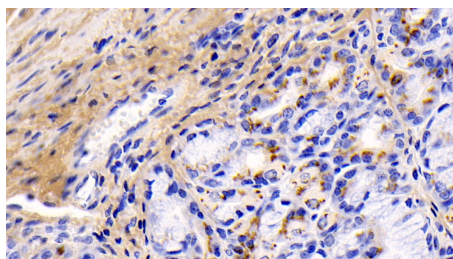
Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no

obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

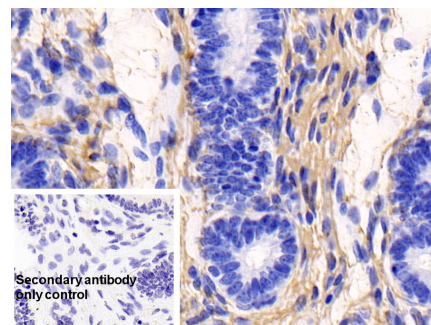
[IDENTIFICATION]



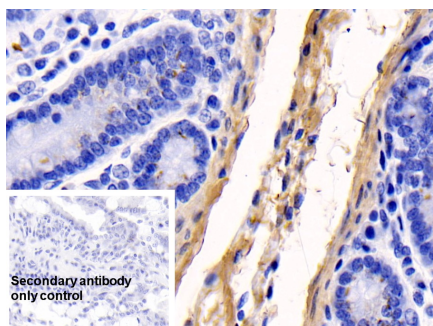
Western Blot; Sample: Human Lung
lysate Primary Ab: 0.5µg/ml Mouse Anti-
Human COL1a1 Antibody Second Ab:
0.2µg/mL HRP-Linked Caprine Anti-
Mouse IgG Polyclonal Antibody
(Catalog: SAA544Mu19)



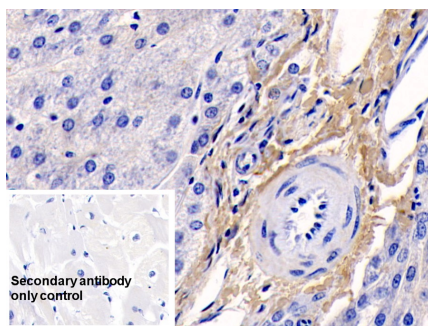
DAB staining on IHC-P;
Sample: Human Stomach Tissue;
Primary Ab: 30µg/ml Mouse Anti-
Human COL1a1 Antibody
Second Ab: 2µg/mL HRP-Linked
Caprine Anti-Mouse IgG Polyclonal
Antibody
(Catalog: SAA544Mu19)



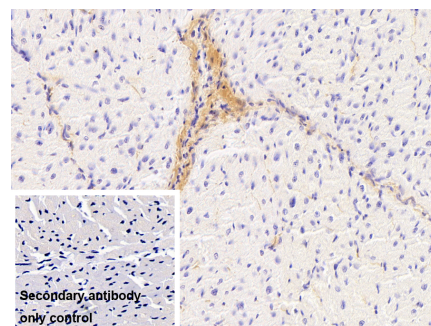
DAB staining on IHC-P;
Sample: Human Uterus Tissue
Primary Ab: 30µg/ml Mouse Anti-
Human COL1a1 Antibody
Control: Used PBS instead of primary
antibody
Second Ab: 2µg/ml HRP-Linked
Caprine Anti-Mouse IgG Polyclonal
Antibody
(Catalog: SAA544Mu19)



DAB staining on IHC-P;
Sample: Human Small intestine Tissue
Primary Ab: 30µg/ml Mouse Anti-
Human COL1a1 Antibody
Control: Used PBS instead of primary
antibody
Second Ab: 2µg/ml HRP-Linked

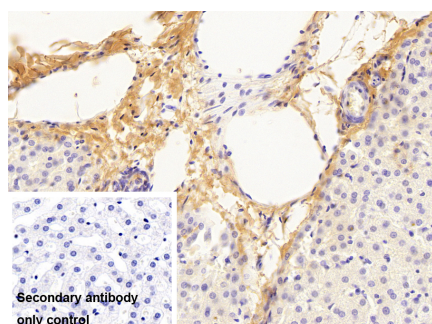


DAB staining on IHC-P;
Sample: Human Liver Tissue
Primary Ab: 30µg/ml Mouse Anti-
Human COL1a1 Antibody
Control: Used PBS instead of primary
antibody
Second Ab: 2µg/ml HRP-Linked



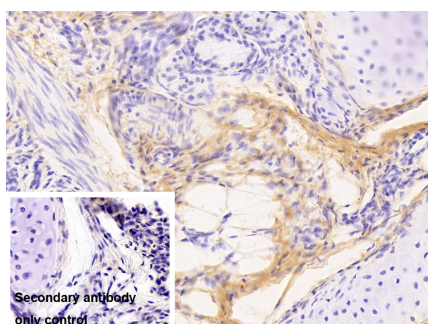
DAB staining on IHC-P;
Sample: Porcine Cardiac Muscle
Tissue
Primary Ab: 30µg/ml Mouse Anti-
Human COL1a1 Antibody
Control: Used PBS instead of primary
antibody

Caprine Anti-Mouse IgG Polyclonal
Antibody
(Catalog: SAA544Mu19)



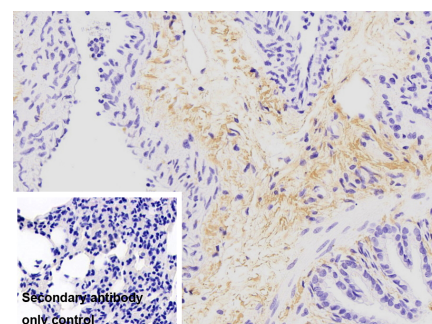
DAB staining on IHC-P;
Sample: Porcine Liver Tissue
Primary Ab: 30µg/ml Mouse Anti-Human COL1a1 Antibody
Control: Used PBS instead of primary antibody
Second Ab: 2µg/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody
(Catalog: SAA544Mu19)

Caprine Anti-Mouse IgG Polyclonal
Antibody
(Catalog: SAA544Mu19)

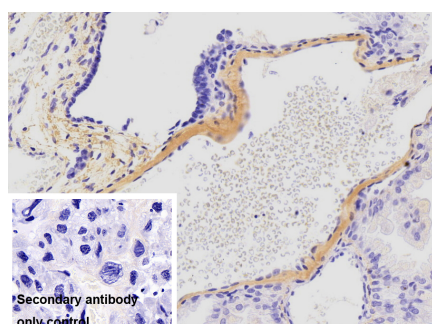


DAB staining on IHC-P;
Sample: Porcine Lung Tissue
Primary Ab: 30µg/ml Mouse Anti-Human COL1a1 Antibody
Control: Used PBS instead of primary antibody
Second Ab: 2µg/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody
(Catalog: SAA544Mu19)

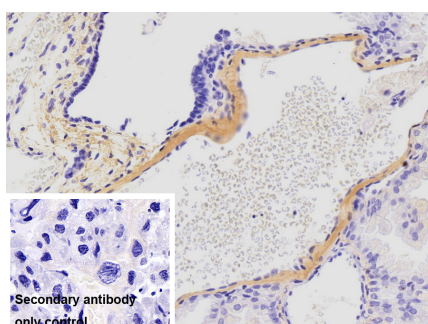
Second Ab: 2µg/ml HRP-Linked
Caprine Anti-Mouse IgG Polyclonal
Antibody
(Catalog: SAA544Mu19)



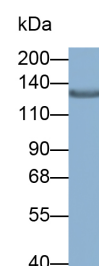
DAB staining on IHC-P;
Sample: Rat Lung Tissue
Primary Ab: 30µg/ml Mouse Anti-Human COL1a1 Antibody
Control: Used PBS instead of primary antibody
Second Ab: 2µg/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody
(Catalog: SAA544Mu19)



DAB staining on IHC-P;
Sample: Rat Placenta Tissue
Primary Ab: 30µg/ml Mouse Anti-Human COL1a1 Antibody
Control: Used PBS instead of primary antibody
Second Ab: 2µg/ml HRP-Linked



DAB staining on IHC-P;
Sample: Rat Parotid Gland Tissue
Primary Ab: 30µg/ml Mouse Anti-Human COL1a1 Antibody
Control: Used PBS instead of primary antibody
Second Ab: 2µg/ml HRP-Linked



Western Blot; Sample: PC3 cell lysate
Primary Ab: 0.5µg/ml Mouse Anti-Human COL1a1 Antibody
Second Ab: 0.2µg/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody
(Catalog: SAA544Mu19)

Caprine Anti-Mouse IgG Polyclonal

Antibody

(Catalog: SAA544Mu19)

Caprine Anti-Mouse IgG Polyclonal

Antibody

(Catalog: SAA544Mu19)

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.