

Protocol

Anti-Collagen Immunohistochemistry (IHC)

I. Reagents Required

Product	Preparation	Item No.
1X TBS with Tween	Use 10X TTBS, pH 7.5. Dilute appropriate volume to 1X with deionized water	MB-013
Xylene	(e.g. PolyMount Mounting Media MaxTag™ Histo for IHC)	KHH001
80%, 95%, and 100% Ethanol		
UltraPure Sterile Water	Make 1X solution by diluting with UltraPure Sterile Water	MB-009-1000
Primary Antibody		
0.01M Sodium Citrate Buffer, pH6.0		
Universal Protein Block	(e.g., Normal Goat Serum (NGS) (#B304) if secondary antibody is goat host)	
Biotinylated Secondary Antibody		
Alkaline Phosphatase		

Chromogen Substrate

II. Tissue Preparation and Sectioning

- 1. Formalin fixation and embedding in paraffin wax.
- 2. Make 4 μ m sections and place on pre-cleaned and charged microscope slides.
- 3. Heat in a tissue-drying oven for 45 minutes at 60°C.

III. Procedure for Paraffin Sections

- 1. Deparaffinize slides in xylene 3 times for 5 minutes each at room temperature.
- 2. Hydrate slides with 100% ethanol 3 times for 3 minutes each at room temperature.
- 3. Hydrate slides with 95% ethanol 2 times for 3 minutes each at room temperature.
- 4. Hydrate slides with 80% ethanol 1 time for 3 minutes at room temperature.
- 5. Rinse in UltraPure sterile water for 5 minutes at room temperature.

IV. Antigen Retrieval

- 1. Steam slides in 0.01M sodium citrate buffer, pH 6.0 at 99–100°C for 20 minutes.
- 2. Remove from heat and let stand at room temperature in buffer for 20 minutes.

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3. Rinse in 1X TBS with Tween (TBST) for 1 minute at room temperature.

V. Immunostaining

- 1. Do not allow tissues to dry at any time during the staining procedure.
- 2. Apply a universal protein block for 20 minutes at room temperature.
- 3. Drain protein block from slides, apply diluted primary antibody for 45 minutes at room temperature.
- 4. Rinse slides in 1X TBST for 1 minute at room temperature.
- 5. Apply biotinylation secondary antibody (specific to the host of primary antibody) for 30 minutes at room temperature.
- 6. Rinse slides in 1X TBST for 1 minute at room temperature.
- 7. Apply alkaline phosphatase chromogen substrate for 30 minutes at room temperature.
- 8. Rinse in UltraPure sterile water for 1 minute at room temperature.

VI. Dehydrate

- 1. This method should only be used if the chromogen substrate is alcohol insoluble.
- 2. Wash slides with 80% ethanol 2 times for 1 minute each at room temperature.
- 3. Wash slides with 95% ethanol 2 times for 1 minute each at room temperature.
- 4. Wash slides with 100% ethanol 3 times for 1 minute each at room temperature.
- 5. Wash slides with xylene 3 times for 1 minute each at room temperature.
- 6. Apply coverslip.

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