## Detection of Uroplakin III in Formalin-Fixed, Paraffin-Embedded Rat Tissue

## **Reagent and Antibody Information**

1X Wash Buffer 3% Hydrogen Peroxide 1% BSA Diluent 1X Citrate Buffer DAB Chromagen Hematoxylin

Staining Kit: Vectastain Elite ABC Kit (Mouse IgG) Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # PK-6102

**Note**: This kit contains all reagents necessary to make the blocking reagent, secondary antibody and label complex.

Avidin / Biotin Blocking Kit Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # SP-2001

Primary Antibody: Mouse Anti-Uroplakin III Monoclonal Antibody American Research Products, Inc. Belomont, MA 02478 www.arpl.com 1-800-832-2611 Catalog # 03-610108

Negative Control Serum: Purified Mouse IgG1 Isotype Control Serum BD Biosciences San Jose, CA 95131 www.bdpharma.com 1-877-232-8995 Catalog # 557273

## **Staining Procedure**

Positive Control Tissue: Male reproductive tract (epithelium of the bladder, urether, and ureter) Stain Localization: Cytoplasmic

Solution	Repetitions	Time
Xylene	2 times	5 minutes
100% Ethanol	2 times	3 minutes
95% Ethanol	2 times	3 minutes
1X Wash Buffer	2 times	5 minutes

1. Deparaffinize and hydrate slides through the following solutions:

- 2. Quench endogenous peroxidase by placing the slides in 3% hydrogen peroxide for 15 minutes.
- 3. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
- 4. <u>Heat-Induced Epitope Retrieval Using The Decloaker</u>

Add 500 ml of distilled water to the pan inside the decloaker. Place a full rack of slides into a Tissue Tek® container with 200 ml of 1X citrate buffer (Insert blank slides into any empty slots in the rack to ensure even heating of slides) Place the container stably inside the pan and decloak for 5 minutes. *Maximum Pressure* \_\_\_\_\_\_ Depressurize for 10 minutes. Remove pan top and cool for 10 minutes. *Temperature Before Cooling Slides*\_\_\_\_\_\_ Rinse the slides in 2 changes of distilled water for 3 minutes each time.

5. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.

Vectastain Mouse Elite Staining Kit Exp Date\_\_\_\_\_ New Kit: yes / no

6. Apply the blocking solution from the Mouse Elite Kit, and incubate for 20 minutes at room temperature.

DO NOT RINSE THE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.

7. <u>Avidin / Biotin Blocking Kit</u> Lot #\_\_\_\_\_ Exp. Date\_\_\_\_\_ New Kit: yes / no Apply avidin block for 15 minutes at room temperature. Quick rinse in 1X Wash Buffer. Apply biotin block for 15 minutes at room temperature.

## DO NOT RINSE SLIDES WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BUFFER.

8. Apply primary antibody at a 1:100 dilution, and incubate for 1 hour at room temperature. Lot #\_\_\_\_\_ Exp Date \_\_\_\_\_ For negative control slides, dilute the protein concentration of the mouse IgG1 serum to match that of the primary antibody, if necessary. Make a 1:100 dilution from this normalized serum, and apply to the slides. Incubate for 1 hour at room temperature. Lot #\_\_\_\_\_ Date Reconstituted\_\_\_\_\_\_

- 9. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
- 10. Apply the secondary antibody from Mouse Elite Kit, and incubate for 30 minutes at room temperature.
- 11. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
- 12. Apply the label complex from the Mouse Elite Kit, and incubate for 30 minutes at room temperature.
- 13. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
- 14. Apply the DAB chromagen, and incubate in the dark for 6 minutes at room temperature. (Add 1 drop of DAB per ml of substrate) Lot #\_\_\_\_\_ Exp Date\_\_\_\_\_ New Kit: yes / no
- 15. Rinse the slides in tap water 3 minutes.
- 16. Counterstain with Harris Hematoxylin for 20 seconds.
- 17. Rinse the slides in tap water until water is clear.
- 18. Gently agitate slides in 1X Wash Buffer until they turn blue.
- 19. Dehydrate through the following solutions:

Solution	Repetitions	Time
95% Ethanol	1 time	3 minutes
100% Ethanol	3 times	3 minutes
Xylene	2 times	5 minutes

20. Coverslip

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