Detection of C3 in Formalin-Fixed, Paraffin-Embedded Rat Tissue

Reagent and Antibody Information

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

Blocking Serum: Normal Horse Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 008-000-001

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

Primary Antibody: Mouse Anti-C3 Monoclonal Antibody (B-9)
Santa Cruz Biotechnology
Santa Cruz, CA 95060

www.scbt.com
1-800-457-3801
Catalog # sc-28294

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

Secondary Antibody: Biotinylated Horse Anti-Mouse IgG (H+L) Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # BA-2001 <u>Label Complex: Vectastain Elite ABC Kit (Standard)</u>

Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # PK-6100

Staining Procedure

Positive Control Tissue: LPS-treated Kidney

Stain Localization: Cytoplasmic – glomeruli and inner lining of tubules

1. Deparaffinize and hydrate slides through the following solutions:

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

- 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. Proteolytic-Induced Epitope Retrieval Using Trypsin

Incubate the slides in a 0.1% trypsin solution in a water bath at 37°C for 20 minutes.

(DO NOT add the trypsin to the 0.05M Tris-HCl • CaCl₂ solution until 5 minutes prior to incubation.

Trypsin looses 75% of its reactivity within 30 minutes at 37°C.)

Rinse the slides in distilled water for 1 minute to stop the enzymatic digestion.

5. Rinse the slides in 2 changes of $1X$ wash Buffer for 5 minutes ea	ıcn.
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	% Normal Horse Serum for 2 Date Reconstituted	0 minutes at room temperature.
DO NOT RINS	SE SLIDES. CONTINUE TO	O AVIDIN-BIOTIN BLOCK.
Apply avidin b Quick rinse in		•

DO NOT RINSE SECTIONS WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BLOCK.

8. Apply primary antibody at a 1:1000 dilution, and incubate for 1 hour at room temperature. Lot # Date Aliquoted
For negative control slides, apply the mouse IgG1 control serum at a 1:1000 dilution, and incubate for 1 hour at room temperature. (Do not need to normalize.) Lot # Date Reconstituted
9. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
 Apply the horse anti-mouse secondary antibody at a 1:1000 dilution, and incubate for 30 minutes at room temperature. Lot # Date Reconstituted
11. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
12. Apply the label complex from the Standard Elite Kit, and incubate for 30 minutes at room temperature. (Prepare at least 30 minutes prior to use.) Exp. Date New Kit: yes / no
13. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.
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.

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- 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:

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

20. Coverslip