Detection of EphA3 in Formalin-Fixed, Paraffin-Embedded Mouse Tissue

Reagents:

1X Automation Buffer
3% Hydrogen Peroxide
Antibody Diluent
Citrate Buffer
DAB Chromagen
Hematoxylin

Antibody Information:

Kit: Rabbit Elite Kit
Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # PK-6101

Note: The Vector Rabbit Elite Kit contains solutions needed to make the block and secondary reagents.

Avidin Biotin Blocking Kit

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

Primary antibody: Rabbit anti-EphA3 (C-19) Polyclonal Antibody

Santa Cruz Biotechnology, Inc.

Santa Cruz, CA 95060

www.scbt.com

1-800-457-3801

Catalog # sc-919

Negative control serum: Normal Rabbit Serum

Jackson Immunoresearch Laboratories, Inc.

West Grove, PA 19390

www.jacksonimmuno.com

1-800-367-5296

Catalog # 011-000-001

<u>Label antibody: Peroxidase-conjugated Streptavidin SS Label</u>

Biogenex

San Ramon, CA 94583

www.biogenex.com

1-800-421-4149

Catalog # HK330-9K

Staining Procedure

Positive Control Tissue: Mouse Brain

Stain Localization: Cytoplasmic (purkinjes of cerebellum)

Deparaffinize and hydrate slides through the following solutions:

Xylene	2 times	5 minutes
100% Ethanol	2 times	3 minutes
95% Ethanol	2 times	3 minutes
1X Automation Buffer	2 times	5 minutes

- 1. Quench endogenous peroxidase by placing slides in 3% hydrogen peroxide for 15 minutes.
- 2. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.
- 3. Unmasking Technique using the decloaker.

Add 500ml distilled water to the pan of the decloaker.

Place a full rack of slides in a Tissue TekTM container containing 250ml of 1X citrate buffer solution.

Decloak for 5 minutes. Pressure

Depressurize for 10 minutes.

Remove pan top and cool for 10 minutes. Temperature before cooling ______

Rinse in distilled water two times for 3 minutes each.

- 4. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.
- 5. Apply blocking solution from the Vector Rabbit Elite kit and incubate for 20 minutes at room temperature.

Exp. Date______New Kit: yes / no

DO NOT RINSE SLIDES. CONTINUE TO AVIDIN-BIOTIN.

6. Apply Avidin/Biotin block				
Lot# Exp. DateNew Kit: yes / no				
Apply avidin block - 15 min at room temperature.				
Quick rinse in 1X Automation Buffer				
Apply biotin block - 15 min at room temperature.				
Wipe excess block				
DO NOT RINSE SLIDES WITH BUFFER BEFORE ADDING PRIMARY				
ANTIBODY.				
7. Apply primary antibody (EphA3) at a 1:400 dilution and incubate for one hour at roo	m			
temperature.	,111			
Lot# Exp Date				
For negative control slides, normalize the protein concentration of the normal rabbit				
serum to the protein concentration of the primary antibody (EphA3), and use this to				
make a 1:400 dilution. Apply to the slides and incubate for one hour at room				
temperature.				
Lot# Reconstitution Date				
8. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.				
O Apply according antibody from the Dobbit Elite Vit and incubate for 20 minutes at				
9. Apply secondary antibody from the Rabbit Elite Kit and incubate for 30 minutes at				
room temperature.				
10. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.				
10. Ruise shaes in 2 changes of 111 rationation Buffer for 5 inmates each.				
11. Apply Biogenex SuperSensitive Label antibody and incubate for 30 minutes at room	n			
temperature.				
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12. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.				
13. Apply liquid Dako DAB Chromagen for 6 minutes in the dark.				
(Add 1 drop of DAB per ml of substrate)				
Lot# Exp. Date New Kit: yes / no				
14. Dinas in tan water 2 minutes				
14. Rinse in tap water 3 minutes.				
15. Counterstain with Modified Harris Hematoxylin for 30 seconds.				
15. Counterstain with Wodiffed Harris Hematoxyim for 50 seconds.				
16. Rinse in tap water until water is clear.				
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17. Gently agitate slides in 1X Automation Buffer until blue.				

18. Dehydrate through the following solutions.

95% Ethanol	1 change	3 minutes
100% Ethanol	3 changes	3 minutes
Xylene	2 changes	5 minutes

19. Coverslip

Updated 06/29/06