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

Reagent and Antibody Information

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

Blocking Solution: Dakocytomation Protein Block Serum-Free Ready-To-Use

Dakocytomation Corporation Carpinteria CA 93013 www.dakousa.com 1-800-235-5763

Code No. X0909

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

<u>Primary Antibody</u>: <u>Rabbit Anti-Neomycin Antibody</u> Upstate Cell Signaling Solutions

Lake Placid, NY 12945

www.upstate.com 1-800-233-3991 Catalog # 06-747

Catalog # SP-2001

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

Staining Kit: LSAB+ System-HRP

Dakocytomation Corporation

Carpinteria CA 93013

www.dakousa.com 1-800-235-5763

1-000-233-3703

Code No. K0690

Note: This kit includes reagents needed for the secondary antibody (link) and label complex.

Staining Procedure

Positive Control Tissue: Mouse tissue with neomycin insert

Stain localization: Cytoplasmic

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.	. <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. <i>Maximum Pressure</i>				
	Depressurize for 10 minutes.				
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	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.				
6.	6. Block with the Dako Protein Blocking Reagent for 10 minutes at room temperature.				
	Lot # Exp Date				
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	DO NOT RINSE THE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.				
7	Avidin / Biotin Blocking Kit				
, .	Lot # Exp Date New Kit: yes / no				
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	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.	3. Apply the primary antibody at a 1:300 dilution, and incubate for 1 hour at room temperature.				
	Lot # Date Aliquoted				

For negative control slides, dilute the protein concentration of the normal rabbit serum to match that of

the primary antibody. Make a 1:300 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.				
LSAB+ Kit Lot # Exp Date				
10. Apply the Link (yellow bottle) from the LSAB+ Kit, and incubate for 20 minutes at room temperature.				
11. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.				
12. Apply the Label (red bottle) from the LSAB+ Kit, and incubate for 20 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.				

19. Dehydrate	through t	the following	solutions:
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Solution	Repetitions	Time
95% Ethanol	1 time	3 minutes
100% Ethanol	3 times	3 minutes
Xylene	2 times	5 minutes

18. Gently agitate slides in 1X Wash Buffer until they turn blue.

20. Coverslip

Updated 020/9/04