Detection of HDAC2 in Formalin-Fixed, Paraffin-Embedded Human Tissue

Reagents:

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

Antibody Information:

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

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

Avidin Biotin Blocking Kit

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

Primary antibody: Mouse anti-HDAC2 (C-8) Monoclonal Antibody
Santa Cruz Biotechnology, Inc.
Santa Cruz, CA 95060

www.scbt.com
1-800-457-3801
Catalog # sc-9959

Negative control serum: Normal Mouse Serum Jackson Immunoresearch Laboratories, Inc. West Grove, PA 19390 www.jacksonimmuno.com 1-800-367-5296 Catalog # 015-000-001

Staining Procedure

3

Positive Control Tissue: Breast carcinoma and teratoma

Stain Localization: Nuclear

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.

. Unmasking technique using the decloaker.
Add 500 ml distilled water to the pan of the decloaker.
Place full rack of slides in 200 ml of 1X citrate buffer and place in the decloaker.
Decloak for 5 minutes. Pressure
Depressurize for 10 minutes.
Remove pan top and cool for 10 minutes. Temperature before cooling
Rinse in distilled water twice 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 Mouse Elite Kit and incubate for 20 minutes at room temperature.

Exp. Date ______ New Kit: yes / no

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

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______ Exp Date______ New Kit: yes / no

Apply avidin block - 15 minutes at room temperature.

Quick rinse in 1X Automation Buffer.

Apply biotin block - 15 minutes at room temperature.

No wash, wipe excess block and apply primary antibody

DO NOT RINSE SLIDES WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY.

7. Apply prima temperature	ary antibody	(HDAC2) at a	a 1:10 dilution and	l incubate for one hour at room	
-		Exp Date _			
serum to the a 1:10 diluti	protein conon. Apply	ncentration of to slides and in	the primary antibo	ntration of the normal mouse dy (HDAC2). Use this to make ur at room temperature.	
8. Rinse slides	in 2 change	es of 1X Auton	nation Buffer for 5	minutes each.	
9. Apply secon room temper	•	dy from Vecto	or Mouse Elite Kit	and incubate for 30 minutes at	
10. Rinse slide	s in 2 chang	ges of 1X Auto	omation Buffer for	5 minutes each.	
11. Apply labe room temp	•	From Vector M	ouse Elite Kit and	incubate for 30 minutes at	
12. Rinse slide	s in 2 chang	ges of 1X Auto	omation 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#	<u> </u>	Exp Date	New	Kit yes / no	
14. Rinse in tap water 3 minutes.					
15. Counterstain with Modified Harris Hematoxylin for 20 seconds.					
16. Rinse in tag	p water unti	l water is clear	r.		
17. Gently agit	ate slides in	n 1X Automati	on buffer until the	y turn blue.	
18. Dehydrate	through the	following solu	utions.		
95% Ethanol	1 change	3 minutes			
100% Ethanol	3 changes	3 minutes			
Xylene	2 changes	5 minutes			

19. Coverslip

Updated 12/15/06