Detection of CYP2B1/2 in Formalin-Fixed, Paraffin-Embedded Rat Tissue

Reagents:

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

Antibody Information:

Block: Protein Block Serum-Free Ready-To-Use
Dakocytomation USA
Carpinteria CA 93013
www.dakousa.com
1-800-235-5763
Catalog #X0909

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

Primary antibody: Rabbit anti-Human Cytochrome P450 CYP2B6 and Rat CYP2B1/2 Chemicon International, Inc Temecula, CA 92590

www.chemicon.com
1-800-437-7500
Catalog #AB1283

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

LSAB+ System-HRP Dakocytomation USA Carpinteria CA 93013 www.dakousa.com

Catalog #K0690

Staining Procedure

-Positive Control Tissue: Rat Liver -Stain Localization: Cytoplasmic

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. Perform Heat Induced Epitope Retrieval using a Microwave Oven Unmasking Techniques

Place a full rack of slides in a Tissue TekTM container containing 250ml of citrate buffer. Microwave for 5 minutes at power level 5.

Cool for 1 minute (Add 50ml of citrate buffer to the container, if necessary).

Microwave again for 5 minutes at power level 5.

Remove the slides from the microwave oven and cool 20 minutes at room temperature.

Rinse slides in 2 changes of distilled water for 3 minutes each.

4. Rinse slides	1n 2 c	nanges (OI I	l X Aut	omation	Buller	ior 5	minutes	eacn.

5. Incubate slides in Dako Serum-Free Pr Lot# Exp. Date	rotein Block for 10 minutes at room temperature.
6. Apply Avidin/Biotin block	
Lot#Exp. Date	New Kit: yes / no
Apply avidin block - 15 min at RT.	<i>,</i>
Quick rinse in 1X AB.	
Apply biotin block - 15 min at RT.	
Wine excess block	

^{*} This kit contains all the reagents necessary for secondary and label antibodies.

DO NOT RINSE SLIDES WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY.

7. Apply primary antibody (Cyp2B1/2) at a 1:500 dilution and incubate for 30 minutes at room temperature.
Lot# Aliquoted yes / no Date Aliquoted
For negative control slides, normalize the normal rabbit serum to the protein concentration of the primary antibody (Cyp2B1/2) and use this to make a 1:500 dilution. Apply to slides and incubate for 30 minutes at room temperature. Lot# Reconstituted Date
8. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.
LSAB+ Kit Lot# Exp. Date
9. Apply Link – Secondary (yellow bottle) from LSAB+ Kit and incubate for 30 minutes at room temperature.
10. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.
11. Apply Label (red bottle) from LSAB+ Kit and incubate for 30 minutes at room temperature.
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. Rinse in tap water 3 minutes.
15. Counterstain with Modified Harris Hematoxylin for 30 seconds.
16. Rinse in tap water until water is clear.
17. Place slides in 1X Automation buffer for 1 minute with gentle agitation to blue slides.
18. Dehydrate through the following solutions.
95% Ethanol 1 change 3 minutes

100% Ethanol 3 changes 3 minutes

2 changes 5 minutes

Xylene

19. Coverslip

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