Detection of CYP2E1 in Formalin-Fixed, Paraffin-Embedded Rat 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
Catalog # SP-2001

Primary Antibody: Rabbit Anti-Cytochrome P450 CYP2E1 Antibody

Stressgen Bioreagents Victoria BC Canada V8Z 4B9 www.stressgenbioreagents.com 1-800-661-4978 Catalog # MFO-100

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

Code No. K0690

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

Staining Procedure

Positive Control Tissue: Liver (upregulated by treatment)

Stain Localization: Cytoplasmic

1. 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 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.	Heat-Induced Epitope Retrieval Using The Decloaker 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. Maximum Pressure Depressurize for 10 minutes. 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.	Block with the Dako Protein Blocking Reagent and incubate for 10 minutes at room temperature. Lot # Exp Date DO NOT RINSE THE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.
7.	Avidin / Biotin Blocking Kit Lot # Exp Date New Kit: yes / no Apply avidin block - 15 minutes at room temperature. Quick rinse in 1X Wash Buffer. Apply biotin block - 15 minutes at room temperature. DO NOT RINSE SLIDES WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BUFFER.
8.	Apply the primary antibody at a 1:250 dilution and incubate for 30 minutes 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 1:250 dilution from this normalized serum and apply to the slides. Incubate for 30 minutes at room temperature.

Lot # Date Reconstituted			
P. 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 30 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 30 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 f (Add 1 drop of DAB per ml of substrate) Lot # Exp Date	_		
15. Rinse the slides in tap water 3 minutes.			
16. Counterstain with Harris Hematoxylin for 30 seconds			
17. Rinse the slides in tap water until water is clear.			

19. Dehydrate through the following solutions:

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 02/01/06