Detection of CYP2D1 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 Serum: Normal Goat Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 005-000-121

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

Primary Antibody: Rabbit Anti-Rat Cytochrome P450 CYP2D1 Chemicon International, Inc Temecula, CA 92590 www.chemicon.com 1-800-437-7500 Catalog # AB1271

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

Secondary Antibody: Biotinylated Goat Anti-Rabbit IgG (H+L) Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # BA-1000

<u>Label Complex: Vectastain Elite ABC Kit (Standard)</u>

Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # PK-6100

Staining Procedure

Positive Control Tissue: Liver (upregulated by treatment) Stain Localization: Cytoplasmic (centrilobular staining pattern)

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 slides in 2 changes of 1X Wash Buffer for 5 minutes each.

4.	Heat-Induced Epitope Retrieval Using The Microwave			
	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)			
	Microwave for 5 minutes at power level 5.			
	Cool for 1 minute. (Add more citrate buffer, if necessary.)			
	Microwave again for 5 minutes at power level 5. Temperature Before Cooling Slides			
	Cool 20 minutes at room temperature.			
	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.

	% Normal Goat Serum for 20 Date Reconstituted	minutes at room temperature.
L0t #	Date Reconstituted	
DO NOT RINS	SE SLIDES. CONTINUE TO	O AVIDIN-BIOTIN BLOCK.
7. <u>Avidin / Biotin</u>	Blocking Kit	
T 4 11	Exp. Date	New Kit: yes / no
Lot #		
	lock - 15 minutes at room ten	
Apply avidin b	•	

DO NOT RINSE SECTIONS WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BLOCK.

	y primary antibody 			ubate for 1 hour at room temperature.
Lot II		Lxp. Dute _		
the pa	rimary antibody. Noate for 1 hour at ro	Make a 1:5000 om temperatur	dilution from te.	tration of the normal rabbit serum to match that of this normalized serum and apply to the slides.
9. Rinse	e the slides in 2 cha	nges of 1X Wa	ash Buffer for	5 minutes each time.
tem	perature.	•		1:500 dilution and incubate for 30 minutes at room
11. Rin	se the slides in 2 ch	anges of 1X W	ash Buffer fo	r 5 minutes each time.
(Pre	oly the label complete pare at least 30 min. Date	nutes prior to u	ise.)	it and incubate for 30 minutes at room temperature. / no
13. Rin	se the slides in 2 ch	anges of 1X W	Vash Buffer fo	r 5 minutes each time.
(Ad	d 1 drop of DAB p	er ml of substr	ate)	x for 6 minutes at room temperature. New Kit: yes / no
15. Rin	se the slides in tap	water 3 minute	es.	
16. Cou	ınterstain with Harı	ris Hematoxyli	n for 30 secon	ds.
17. Rin	se the slides in tap	water until wat	er is clear.	
18. Gen	ntly agitate slides in	1X Wash buff	fer until they t	urn blue.
19. Deh	ydrate through the	following solu	itions:	
	95% Ethanol	1 time	3 minutes	
	100% Ethanol	3 times	3 minutes	
	Xylene	2 times	5 minutes	

20. Coverslip