Detection of CYP2C12 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 Polyclonal Antibody To Cytochrome P450 2C + 2C9 + 2C19 + 2C12 Abcam, Inc.

Cambridge, MA 02139

www.abcam.com

1-888-772-2226

Catalog # ab22596-50

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: Peroxidase-Conjugated Streptavidin SS Label</u>

Biogenex Laboratories San Ramon, CA 94583 www.biogenex.com 1-800-421-4149 Catalog # HK330-9K

Staining Procedure

7. Avidin / Biotin Blocking Kit

Quick rinse in 1X Wash Buffer.

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

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 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. <i>Maximum Pressure</i>
	Depressurize for 10 minutes.
	Remove pan top and cool for 10 minutes. <i>Temperature Before Cooling Slides</i>
	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 10% Normal Goat Serum for 20 minutes at room temperature.
٠.	Lot # Date Reconstituted
	DO NOT RINSE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.

Lot #_____ Exp. Date_____ New Kit: yes / no

Apply avidin block for 15 minutes at room temperature.

Apply biotin block for 15 minutes at room temperature.

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

	a 1:1000 dilution, and incubate for 1 hour at room temperature. Exp. Date
the primary antibody. Mak Incubate for 1 hour at room	dilute the protein concentration of the normal rabbit serum to match that of e a 1:1000 dilution from this normalized serum, and apply to the slides. temperature. Date Reconstituted
9. Rinse the slides in 2 change	s of 1X Wash Buffer for 5 minutes each time.
temperature.	secondary antibody at a 1:500 dilution, and incubate for 30 minutes at room
Lot #	_ Date Reconstituted
11. Rinse the slides in 2 change	es of 1X Wash Buffer for 5 minutes each time.
	Label, and incubate for 30 minutes at room temperature. Exp Date
13. Rinse the slides in 2 change	es of 1X Wash Buffer for 5 minutes each time.
(Add 1 drop of DAB per n	n, and incubate in the dark for 6 minutes at room temperature. nl of substrate) Exp. Date New Kit: yes / no
15. Rinse the slides in tap wat	er 3 minutes.
16. Counterstain with Harris H	Hematoxylin for 20 seconds.
17. Rinse the slides in tap wat	er until water is clear.
18. Gently agitate slides in 1X	Wash Buffer until they turn blue.
19. Dehydrate through the foll	owing solutions:

Solution	Repetitions	Time
95% Ethanol	1 time	3 minutes
100% Ethanol	3 times	3 minutes
Xylene	2 times	5 minutes