Detection of p21 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 Horse Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 008-000-001

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

Primary Antibody: Mouse Monoclonal p21 Antibody (F-5)
Santa Cruz Biotechnology, Inc.
Santa Cruz, CA 95060

www.scbt.com
1-800-457-3801
Catalog # sc-6246

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

Secondary Antibody: Biotinylated Horse Anti-Mouse IgG (H+L) Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # BA-2001

Label Complex: Vectastain Elite ABC Kit (Standard)

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

Staining Procedure

Positive Control Tissue: Pancreas, liver, and lung

Stain Localization: Nuclear

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. Maximum Pressure
	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.
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5.	Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.
6	Block with 10% Normal Horse Serum for 20 minutes at room temperature.
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	Lot # Date Reconstituted

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

7. Avidin / Biotin	Blocking Kit		
Lot #	Exp. Date	New Kit:	yes / no
Apply avidin b	lock for 15 minutes at room te	mperature.	
Quick rinse in	1X Wash Buffer.		
Apply biotin bl	lock for 15 minutes at room ter	mperature.	

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

8. Apply the primary antibody at a 1:10 dilution, and incubate overnight at 4°C. Lot # Exp Date
For negative control slides, dilute the protein concentration of the normal mouse serum to match that of the primary antibody. Make a 1:10 dilution from this normalized serum, and apply to the slides. Incubate overnight at 4°C Lot # Date Reconstituted

9. Bring the slides up to room temperature in 1X Wash Buffer for at least 15 minutes.
10. Apply the horse anti-mouse secondary antibody at a 1:500 dilution, and incubate for 30 minutes at room temperature. Lot # Date Reconstituted
11. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
12. Apply the label complex from the Standard Elite Kit, and incubate for 30 minutes at room temperature. (Prepare at least 30 minutes prior to use.) Exp. Date New Kit: yes / no
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 for 6 minutes at room temperature. (Add 1 drop of DAB per ml of substrate) Lot # Exp Date New Kit: yes / no
15. Rinse the slides in tap water 3 minutes.
16. Counterstain with Harris Hematoxylin for 20 seconds.
17. Rinse the slides in tap water until water is clear.
18. Gently agitate slides in 1X Wash buffer until they turn blue.
19. Dehydrate through the following solutions:

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