Detection of p53 in Formalin-Fixed, Paraffin-Embedded Human 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 p53 Antibody (CM1)
Vision Biosystems, Inc
Norwell, MA 02061
http://www.vision-bio.com
1-800-753-7264
Catalog # NCL-p53-CM1

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

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: Tissue undergoing tumorigenesis

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. <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.
	Lot # Date Reconstituted

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

7. Avidin / Biotin	Blocking Kit			
Lot #	Exp. Date	New Kit:	yes /	no
	block for 15 minutes at room ten	nperature.		
Quick rinse in	1X Wash Buffer.			
Apply biotin b	lock for 15 minutes at room tem	nperature.		

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

	Exp. Date	
the primary antibod Incubate for 1 hour	slides, dilute the protein concentration of the normal rabbit serum to match the y. Make a 1:500 dilution from this normalized serum, and apply to the slides. at room temperature. Date Reconstituted	ıat of
9. Rinse the slides in 2	changes of 1X Wash Buffer for 5 minutes each time.	
temperature.	i-rabbit secondary antibody at a 1:500 dilution, and incubate for 30 minutes at Date Reconstituted	room
11. Rinse the slides in	2 changes of 1X Wash Buffer for 5 minutes each time.	
temperature. (Pre	mplex from the Standard Elite Kit, and incubate for 30 minutes at room pare at least 30 minutes prior to use.) New Kit: yes / no	
13. Rinse the slides in	2 changes of 1X Wash Buffer for 5 minutes each time.	
(Add 1 drop of DA	romagen, and incubate in the dark for 6 minutes at room temperature. B per ml of substrate) 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 slid	es 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