## Detection of Cytokeratin 8 in Formalin-Fixed, Paraffin-Embedded Rat Tissue

## **Reagent and Antibody Information**

1X Wash Buffer
3% Hydrogen Peroxide
1% BSA Diluent
Trypsin
DAB Chromagen
Hematoxylin

Staining Kit: Vectastain Elite ABC Kit (Mouse IgG)
Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # PK-6102

**Note**: This kit contains all reagents necessary to make the blocking solution, secondary antibody and label complex.

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

Primary Antibody: Mouse Monoclonal Antibody to Cytokeratin 8

Abcam Inc Cambridge, MA 02139 www.abcam.com 1-888-772-2226 Catalog # ab9287-100

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

## **Staining Procedure**

Positive Control Tissue: Skin Stain Localization: Cytoplasmic

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 the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
- 4. Proteolytic-Induced Epitope Retrieval Using Trypsin

Vectastain Mouse Elite Staining Kit

Incubate the slides in a 0.01% trypsin solution in a water bath at 37°C for 20 minutes. (DO NOT add the trypsin to the 0.05M Tris-HCl • CaCl<sub>2</sub> solution until 5 minutes prior to incubation.

Trypsin looses 75% of its reactivity within 30 minutes at 37°C.)

Rinse the slides in distilled water for 1 minute to stop the enzymatic digestion.

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

	Exp Date	New Kit: yes	<sup>/</sup> 1	no			
6.	6. Apply the block from the Mouse Elite Kit, and incubate for 20 minutes at room temperature						
	DO NOT RINSE THE SLIE	DES. CONTINUE	ТС	O AVIDIN-BIC	OTIN BLOCK.		
7.	. Avidin / Biotin Blocking Ki	t					
	Lot #Ext			New Kit:	yes / no		
	Apply avidin block for 15 minutes at room temperature.						
	Quick rinse in 1X Wash But		•				
	Apply biotin block for 15 m		npe	erature.			
	DO NOT RINSE SLIDES WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY.						
	ONLY WIPE EXCESS BU	FFER.					
8.	. Apply primary antibody at a	1:5000 dilution, a	and	l incubate for 1	hour at room temperature.		
	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 1:5000 dilution from this normalized serum, and apply to the slides.

Incubate for 1 hour at room	temperature.
Lot #	Date Reconstituted

- 9. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
- 10. Apply the secondary antibody from Mouse Elite 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 complex from the Mouse Elite Kit, and incubate for 30 minutes at room temperature. (Prepare at least 30 minutes prior to use.)
- 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	

20. Coverslip

Updated 03/16/07