Detection of Cytokeratin 20 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

Staining Kit: Vectastain Elite ABC Kit (Rabbit IgG)
Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # PK-6101

Note: This kit contains all reagents necessary to make the blocking reagent, 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: Rabbit Polyclonal CK20 Antibody Abcam, Inc

Cambridge, MA 02139 www.abcam.com 1-888-772-2226

Catalog # ab53120

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

Staining Procedure

Positive Control Tissue: Gastrointestinal tract Stain Localization: Cytoplasmic and cell membrane

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

Lot #_____ Exp Date _____

4. <u>Heat-Induced Epitope Retrieval Using The Decloaker</u>					
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.					
Kinse the shdes in 2 changes of distined water for 3 infinites each time.					
5. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.					
Vectastain Rabbit Elite Staining Kit					
Exp DateNew Kit: yes / no					
6. Apply the blocking solution from the Rabbit Elite Kit and incubate for 20 minutes at room temperature	ıre.				
DO NOT RINSE THE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.					
7. Avidin / Biotin Blocking Kit					
Lot # Exp. Date New Kit: _yes / no					
Apply avidin block - 15 minutes at room temperature.					
Quick rinse in 1X Wash Buffer.					
Apply biotin block - 15 minutes at room temperature.					
Tippiy oldan oldan 13 inmates at fooli temperature.					
DO NOT RINSE SLIDES WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BUFFER.					
8. Apply primary antibody at a 1:1000 dilution and incubate for 1 hour at room temperature.					

the pr	rimary antibody. Noate for 1 hour at ro	Make a 1:1000 om temperatur	dilution from tre.	tration of the normal rabbit serum to match that of this normalized serum and apply to the slides.
Lot #	<u></u>	Date Reco	onstituted	
9. Rinse	e the slides in 2 cha	inges of 1X Wa	ash Buffer for	5 minutes each.
10. App	oly the secondary as	ntibody from F	Rabbit Elite Ki	t and incubate for 30 minutes at room temperature.
11. Rins	se the slides in 2 ch	nanges of 1X W	Vash Buffer fo	r 5 minutes each.
12. App	oly the label comple	ex from the Ra	bbit Elite Kit a	and incubate for 30 minutes at room temperature.
13. Rins	se the slides in 2 ch	nanges of 1X W	Vash Buffer fo	r 5 minutes each.
(Ad	d 1 drop of DAB p	er ml of substr	ate)	for 6 minutes at room temperature. New Kit: yes / no
15. Rins	se the slides in tap	water 3 minute	es.	
16. Cou	nterstain with Harr	ris Hematoxyli	n for 30 secon	ds.
17. Rins	se the slides in tap	water until wat	ter is clear.	
18. Gen	tly agitate slides in	1X Wash Buf	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	

20. Coverslip

Xylene

2 times

5 minutes

Updated 07/01/08