## Detection of Mucin 2 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

Staining Kit: Rabbit ABC Staining System
Santa Cruz Biotechnology, Inc.
Santa Cruz, CA 95060

www.scbt.com
1-800-457-3801
Catalog # sc-2018

**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 Mucin 2 (H-300) Antibody Santa Cruz Biotechnology, Inc. Santa Cruz, CA 95060 www.scbt.com 1-800-457-3801 Catalog # sc-15334

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: Colon (goblet cells)

ONLY WIPE EXCESS BUFFER.

Lot #\_\_\_\_\_ Date Aliquoted\_\_\_\_\_

Stain Localization: Cytoplasm

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.

٥.	Kinse sinces in 2 changes of 17X wash Buffer for 5 limitates each.		
4.	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. Temperature Before Cooling Slides 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.		
	Rabbit ABC Staining Kit Lot # Exp. Date (1 year from received date)		
6.	Apply the blocking reagent from the Goat Staining Kit for 1 hour at room temperature. (Made with 75 $\mu$ l goat serum (blue cap) and 5 ml diluent)		
	DO NOT RINSE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.		
7.	Avidin / Biotin Blocking Kit  Lot # Exp. Date New Kit: yes / no  Apply avidin block for 15 minutes at room temperature.  Quick rinse in 1X Wash Buffer.  Apply biotin block for 15 minutes at room temperature.		

DO NOT RINSE SLIDES WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY.

8. Apply the primary antibody at a 1:500 dilution, and incubate for 1 hour at room temperature.

	protein concentration of the normal rabbit serum to match that ilution from this normalized serum, and apply to the slides. The concentration of the normal rabbit serum to match that it is not the slides.
Lot # Date Reco	
9. Rinse the slides in 2 changes of 1X Wa	ash Buffer for 5 minutes each.
	ne Rabbit Staining Kit, and incubate for 30 minutes at room serum, 25 µl of goat anti-rabbit IgG (green cap), and 5 ml
11. Rinse the slides in 2 changes of 1X W	Vash Buffer for 5 minutes each.
	bbit Staining Kit, and incubate for 30 minutes at room nt A (white cap), 50 µl reagent B (purple cap), and 2.5 ml
13. Rinse the slides in 2 changes of 1X W	ash Buffer for 5 minutes each.
14. Apply the DAB chromagen, and incul (Add 1 drop of DAB per ml of substra	bate in the dark for 6 minutes at room temperature.
	New Kit: yes / no
15. Rinse the slides in tap water 3 minute	s.
16. Counterstain with Harris Hematoxylin	n for 20 seconds.
17. Rinse the slides in tap water until wat	er 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 10/17/06

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