## Detection of Cytokertain 5 in Formalin-Fixed, Paraffin-Embedded Mouse Tissue

## **Reagent and Antibody Information**

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

Blocking Solution: Dakocytomation Protein Block Serum-Free Ready-To-Use

Dakocytomation Corporation Carpinteria CA 93013 www.dakousa.com 1-800-235-5763

Code No. X0909

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

Primary Antibody: Mouse Anti-Cytokeratin 5 Antibody

Chemicon International Temecula, CA 92590 www.chemicon.com 1-800-437-7500 Cat# MAB3224

Catalog # SP-2001

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 Kit: LSAB+ System-HRP
Dakocytomation Corporation
Carpinteria CA 93013
www.dakousa.com
1-800-235-5763
Code No. K0690

**Note**: This kit includes reagents needed for the secondary antibody (link) and label complex.

## **Staining Procedure**

Positive Control Tissue: Gastrointestinal tract (forestomach)

Stain Localization: Cytoplasmic

Quick rinse in 1X Wash Buffer.

Apply biotin block - 15 minutes at room temperature.

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.

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.			
5.	Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.			
6.	Block with the Dako Protein Blocking Reagent and incubate for 10 minutes at room temperature.			
	Lot # Exp Date			
	DO NOT RINSE THE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.			
_	A '1' /D' ' D1 1' IV'			
١.	Avidin / Biotin Blocking Kit			
	Lot # Exp DateNew Kit: yes / no			
	Apply avidin block - 15 minutes at room temperature.			

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

8. Apply the primary antibody at a 1:1000 dilution and incubate for 30 minutes at room temperature.

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

For negative control slides, dilute the protein concentration of the normal rabbit serum to match that of the primary antibody. Make a 1:1000 dilution from this normalized serum and apply to the slides.

	Incubate for 30 minutes at room temperature.  Lot # Date Reconstituted			
€.	O. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.			
	LSAB+ Kit Lot # Exp Date			
10	. Apply the Link (yellow bottle) from the LSAB+ Kit and incubate for 15 minutes at room temperature.			
1 1	. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.			
12	. Apply the Label (red bottle) from the LSAB+ Kit and incubate for 15 minutes at room temperature.			
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 30 seconds.			
17	. Rinse the slides in tap water until water is clear.			
18	8. Gently agitate slides in 1X Wash Buffer until they turn blue.			

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

19. Dehydrate through the following solutions:

20. Coverslip

Updated 03/14/05