Detection of Ki-67 (TEC-3) 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 Serum: Normal Rabbit Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 011-000-001

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

Primary Antibody: Monoclonal Rat Anti- Mouse Ki-67 Antibody (TEC-3)
Dakocytomation Corporation
Carpinteria CA 93013
www.dakousa.com
1-800-235-5763
Code No. M7249

Negative Control Serum: Purified Rat IgG2a Isotype Control Serum
BD Biosciences
San Jose, CA 95131
www.bdpharma.com
1-877-232-8995
Catalog # 559073

Secondary Antibody: Biotinylated Rabbit Anti-Rat IgG (H+L) Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # BA-4001

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: Gastrointestinal tract

Stain Localization: Nuclear (proliferating cells distinctly stains nucleoli)

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.	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 10% Normal Rabbit 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 tem	perature.				
Quick rinse in	1X Wash Buffer.					
Apply biotin b	block for 15 minutes at room temp	perature.				

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

8. Apply primary antibody at a 1:8 Lot # Exp	Date
primary antibody, if necessary. slides. Incubate for 1 hour at ro	te the protein concentration of the rat IgG2a serum to match that of the Make a 1:80 dilution from this normalized serum, and apply to the soom temperature. te Reconstituted
9. Rinse the slides in 2 changes of	1X Wash Buffer for 5 minutes each.
temperature.	dary antibody at a 1:500 dilution, and incubate for 30 minutes at room Reconstituted
11. Rinse the slides in 2 changes of	of 1X Wash Buffer for 5 minutes each.
12. Apply the label complex from temperature. (Prepare at least Exp. Date	
13. Rinse the slides in 2 changes of	of 1X Wash Buffer for 5 minutes each time.
(Add 1 drop of DAB per ml of	nd incubate in the dark for 6 minutes at room temperature. Substrate) Date New Kit: yes / no
15. Rinse the slides in tap water 3	minutes.
16. Counterstain with Harris Hem	atoxylin for 20 seconds.
17. Rinse the slides in tap water u	ntil water is clear.
18. Gently agitate slides in 1X Wa	ash Buffer until they turn blue.
19. Dehydrate through the followi	ng solutions:

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

20. Coverslip