Detection of Galectin 3 / MAC2 in Formalin-Fixed, Paraffin-Embedded Mouse Tissue

Reagent and Antibody Information

1X Wash Buffer
3% Hydrogen Peroxide
1% BSA Diluent
1X Citrate Buffer
Normal Rabbit IgG – Affinity Purified
DAB Chromogen
Hematoxylin

Blocking Serum: Normal Donkey Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 017-000-011

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

Primary Antibody: Rabbit Polyclonal Anti-Galectin 3 Antibody

Abcam, Inc Cambridge, MA 02139 www.abcam.com 1-888-772-2226 Catalog # ab53082

Secondary Antibody: Donkey Anti-Rabbit IgG (H+L) Biotin-SP-Conjugated Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 711-065-152

Label Complex: R.T.U. Vectastain Elite ABC Reagent Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # PK-7100

Staining Procedure

Positive Control Tissue: Multi-tissue

Stain Localization: Nucleus, cytoplasmic in adenomas and carcinomas; may be secreted, also

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.
- 4. <u>Heat-Induced Epitope Retrieval Using The Steamer</u>

Add distilled water to the bottom portion of the steamer.

Preheat 200ml of 1X citrate buffer in a Tissue Tek® container in the steamer between 95°C and 100°C.

Immerse a full rack of slides into the citrate buffer and place the lid back on the steamer.

(Insert blank slides into any empty slots in the rack to ensure even heating of slides)

Steam the slides for 20 minutes.

Remove container from steamer and cool for 20 minutes.

Rinse the slides in 2 changes of distilled water for 3 minutes each time.

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6. Block with 10% normal donkey 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					
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 SECTIONS WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY.					
ONLY WIPE EXCESS BLOCK.					
8. Apply primary antibody at a 1:250 dilution. Incubate for 30 minutes at room temperature.					
Lot # Exp. Date					
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For negative control slides, dilute normal rabbit IgG so that it's IgG protein concentration matches that of the primary antibody (if necessary). Then make a 1:250 dilution. If the concentrations can't be matched using this method, the dilution for the negative reagent may need to be adjusted. Apply the

negative and incubate for 30 minutes at room temperature.
Lot # Exp. Date
9. Rinse the slides in 2 changes of 1X wash buffer for 5 minutes each.
10. Apply the donkey anti-rabbit secondary antibody at a 1:500 dilution. Incubate for 30 minutes at room temperature.
Lot # Date Reconstituted
11. Rinse the slides in 2 changes of 1X wash buffer for 5 minutes each.
12. Apply the Vectastain R.T.U. Elite Label and incubate for 30 minutes at room temperature. Exp. Date New Kit: yes / no
13. Rinse the slides in 2 changes of 1X wash buffer for 5 minutes each time.
14. Apply the DAB chromogen. 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 hematoxylin for 20 seconds.
17. Rinse the slides in tap water until water is clear.
18. Gently agitate slides in 1X wash buffer until the tissues turn blue.
19. Dehydrate through the following solutions:

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

20. Coverslip

Updated 05/11/11