Detection of Insulin in Formalin-Fixed, Paraffin-Embedded Mouse Tissue

Reagents:

1X Automation Buffer
3% Hydrogen Peroxide
Antibody Diluent
Citrate Buffer
DAB Chromagen
Hematoxylin

Antibody Information

Kit: M.O.M. Kit

Vector Laboratories, Inc. Burlingame, CA 94010

www.vectorlabs.com

1-800-227-6666 Catalog: PK-2200

Note: The Vector M.O.M. Kit contains solutions needed to make the block, secondary

and label antibodies.

Avidin Biotin Blocking Kit

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

Primary antibody: Monoclonal anti-Insulin

Sigma-Aldrich
St. Louis, MO
www.sigmaaldrich.com
1-800-325-3010
Catalog # I2018

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 Procedure

temperature.

Positive Control Tissue: Pancreas (Islets of Langerhans)

Stain Localization: Cytoplasmic

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 Automation Buffer	2 times	5 minutes

- 1. Quench endogenous peroxidase by placing slides in 3% hydrogen peroxide for 15 minutes.
- 2. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.

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3.	. Incubate sections for 1 HOUR	1 0	0 0
	(made with 2 drops of Mouse l		
	Kit Lot#E	xp Date	New Kit: yes / no
4.	. Apply Avidin/Biotin block		
•	Lot#Exp Date	New Kit:	ves / no
	Apply avidin block - 15 minute		yes / ne
	Quick rinse in 1X AB.	os at room temperature.	
	Apply biotin block - 15 minute	es at room temperature	
	Wipe excess block	s at 100m temperature.	
	Wipe excess block		
	DO NOT RINSE SECTIONS	WITH BUFFER.	
	Prepare Vector M.O.M .diluent PBS. Make primary secondary	<u>-</u>	
5.	5. Apply primary antibody (Insuroom temperature.	lin) at a 1:8000 dilution a	and incubate for 15 minutes at
	Lot# Ex	p Date	
	For negative control slides, no		
	serum to match the protein cor	-	

this to make a 1:8000 dilution. Apply to slides and incubate for 15 minutes at room

Lot#_____ Reconstituted Date_____

- 6. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.
- 7. Apply M.O.M. biotinylated anti-mouse IgG and incubate for 10 minutes at room temperature (made with 10ul of antibody in 2.5 ml of M.O.M. diluent).
- 8. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.
- 9. Apply M.O.M label for 5 minutes at room temperature. (Prepare at least 30 minutes before use made with 2 drops of Reagent A plus 2 drops of Reagent B in 2.5 ml M.O.M. diluent).
- 10. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.

11.	Apply liquid Dako DAB (Chromagen for 6 minutes in the da	ırk.		
	(Add 1 drop of DAB per n	nl of substrate)			
	Lot #	Exp Date	New Kit:	yes /	no

- 12. Rinse in tap water 3 minutes.
- 13. Counterstain with Modified Harris Hematoxylin for 20 seconds.
- 14. Rinse in tap water until water is clear.
- 15. Gently agitate slides in 1X Automation buffer until they turn blue.
- 16. Dehydrate through the following solutions.

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

17. Coverslip

Updated 10/17/06