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

Reagents:

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

Antibody Information

Kit: Rabbit Elite Kit Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666

Catalog: PK-6101

Note: The Vector Rabbit Elite 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: Rabbit anti-Human Glucagon

A565 recognizes alpha cells in the Islets of Langerhans in the pancreas. The antibody cross-reacts with glucagon in a large number of mammalian species.

Dako Corporation Carpintera, CA www.dakousa.com 1-800-235-5763

Catalog # A0565

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: Pancreas (Islets of Langerhans)

Stain Localization: Cytoplasmic

Deparaffinize and hydrate slides through the following solutions.

Xylene	2 times	5 minutes
100% EtOH	2 times	3 minutes
95% EtOH	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.
- 3. Unmasking Techniques using the microwave oven.

Place a full rack of slides in tissue tekô container containing 200ml of distilled water.

Microwave for 5 minutes at power level 5

Cool for 1 minute (Add more distilled water if necessary)

Microwave for 5 minutes at power level 5. Temp after Microwaving_____

Cool 20 minutes at room temperature.

Rinse in distilled water two times for 3 minutes each.

- 4. Rinse slides in 2 changes of 1X Automation Buffer for 5 minutes each.
- 5. Apply block from Vector Rabbit Elite Kit and incubate for 20 minutes at room temperature.

Exp Date_____ New Kit: yes / no

DO NOT RINSE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.

6. Apply the Avidin/Biotin Block

Lot#_____ Exp Date_____New Kit: yes / no

Apply avidin block - 15 minutes at room temperature.

Quick rinse in 1X Automation Buffer. (Do not leave slides sitting in buffer)

Apply biotin block - 15 minutes at room temperature.

Wipe excess block.

DO NOT RINSE SECTIONS WITH BUFFER BEFORE APPLYING PRIMARY ANTIBODY.

	- •	ody (Glucag	gon) at 1:10	00 dilution and	d incubate fo	or 30 minutes at		
	m temperature. # Exp Date							
serum to ma	egative control and to match the parker and 1:1000 dilu	rotein concution and in	entration of cubate for	the primary a 30 minutes at 1	ntibody (Glu coom temper	cagon). Use this ature.		
8. Rinse	slides in 2 char	nges of 1X	Automation	Buffer for 5 i	ninutes each	ι.		
9. Apply minut	y secondary anti es.	body from	the Vector	Rabbit Elite K	it and incuba	ate for 30		
10. Rins	se slides in 2 cha	anges of 1X	Automatic	on Buffer for 5	minutes eac	eh.		
	ly Label antiboo pare at least 30	•		Elite Kit and i	ncubate for 3	30 minutes.		
12. Rins	se slides in 2 cha	anges of 1X	Automatic	on Buffer for 5	minutes eac	:h		
(Add	ly liquid Dako l d 1 drop of DAI t	B per ml of	substrate)			yes / no		
14. Rins	se in tap water 3	minutes.						
15. Cou	nterstain with M	Iodified Ha	rris Hemat	oxylin for 20 s	econds.			
16. Rins	e in tap water u	ntil clear.						
17. Gen	tly agitate slides	s in 1X Aut	omation bu	ffer until they	turn blue.			
18. Deh	ydrate through t	the following	ng solutions	s.				
	95% Ethanol	1 change	3 minutes					
	100% Ethanol	3 changes	3 minutes					
	Xylene	2 changes	5 minutes					

19. Coverslip

Updated 09/11/06