Detection of COX-2 in Formalin-Fixed, Paraffin-Embedded Mouse Tissue

Reagent and Antibody Information

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

Blocking Serum: Normal Goat Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 005-000-121

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

Primary Antibody: Rabbit Anti-Mouse COX-2
Caymen Chemical
Ann Arbor, MI 48108
www.caymanchem.com
1-800-364-9897
Catalog # 160106

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

Secondary Antibody: Biotinylated Goat Anti-Rabbit IgG (H+L) Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # BA-1000

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: Male reproductive system: highest level of expression located at the distal vas deferens where it inserts into the bladder (weak staining at the proximal end of

the vas defereas)

Stain Localization: Peri-Nuclear and cytoplasmic

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 slides in 2 changes of 1X Wash Buffer for 5 minutes each.

4.	4. Heat-Induced Epitope Retrieval Using The Microwave				
	Place a full rack of slides into a Tissue Tek® container with 200 ml of distilled water				
	(Insert blank slides into any empty slots in the rack to ensure even heating of slides)				
	Microwave for 5 minutes at power level 5.				
	Cool for 1 minute. (Add more distilled, if necessary.)				
	Microwave again for 5 minutes at power level 5. Temperature Before Cooling Slides				

	Microwave again for 5 minutes at power level 5. Temperature Before Cooling Stides				
	Cool 20 minutes at room temperature.				
	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.				
6.	6. Block with 10% Normal Goat 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 #New Kit: yes / no				
Apply avidin block - 15 minutes at room temperature.					
	Quick rinse in 1X Wash Buffer.				
	Apply biotin block - 15 minutes at room temperature.				

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

	y primary antibody <u>+</u>			oate for 1 hour at room temperature.
the p Incul	rimary antibody. Moate for 1 hour at ro	Iake a 1:750 d om temperatur	ilution from the.	tration of the normal rabbit serum to match that of a normalized serum and apply to the slides.
9. Rins	e the slides in 2 cha	nges of 1X Wa	ash Buffer for	5 minutes each time.
tem	perature.	•		1:500 dilution and incubate for 30 minutes at room
11. Rin	se the slides in 2 ch	anges of 1X W	Vash Buffer fo	r 5 minutes each time.
(Pre	ply the label complete pare at least 30 min. Date	nutes prior to u	ise.)	it and incubate for 30 minutes at room temperature. / no
13. Rin	se the slides in 2 ch	anges of 1X W	Vash Buffer fo	r 5 minutes each time.
(Ad	ld 1 drop of DAB p	er ml of substr	ate)	x for 6 minutes at room temperature. New Kit: yes / no
15. Rin	se the slides in tap	water 3 minute	es.	
16. Cou	ınterstain with Harr	is Hematoxyli	n for 30 secon	ds.
17. Rin	se the slides in tap	water until wat	er is clear.	
18. Ger	ntly agitate slides in	1X Wash buff	fer until they t	urn blue.
19. Deł	nydrate through the	following solu	tions:	
	95% Ethanol	1 time	3 minutes	
	100% Ethanol	3 times	3 minutes	
	Xylene	2 times	5 minutes	

20. Coverslip