Detection of NFAT2 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

Staining Kit: M.O.M. Immunodetection Peroxidase Kit
Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # PK-2200

Note: This kit contains all reagents necessary to make the blocking solution, secondary antibody and label complex.

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

Primary Antibody: Mouse Monoclonal NFAT2 Antibody

Abcam Inc Cambridge, MA 02139 www.abcam.com 1-888-772-2226 Catalog # ab2796

Negative Control: Normal Mouse Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 015-000-001

Staining Procedure

Positive Control Tissue: Spleen and thymus (nuclear factor of activated T-cells)

Stain Localization: Cytoplasmic

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.

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. *Temperature Before Cooling Slides*______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.

M.O.M Peroxidase Kit				
Exp. Date	New Kit:	yes	/	no

6. Apply the blocking reagent from the M.O.M. Kit, and incubate for 1 hour at room temperature. (Add 2 drops of the Mouse IgG Blocking Reagent to 2.5 ml of 1X PBS.)

DO NOT RINSE THE 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 SLIDES WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BUFFER.

M.O.M. Diluent: Add 600ul of the Protein Concentrate stock solution to 7.5 ml of 1X PBS. Use this as the diluent for the primary, negative, and secondary antibodies.

	bly the primary antibody at a 1:1000 dilution, and incubate for 1 hour at room temperature. # Exp. Date					
the j	negative control slides, dilute the protein concentration of the normal mouse serum to match that of primary antibody. Make a 1:1000 dilution from this normalized serum, and apply to the slides. bate for 1 hour at room temperature. #					
9. Rins	se the slides in 2 changes of 1X Wash Buffer for 5 minutes each.					
_	10. Apply the secondary antibody from the M.O.M. Kit, and incubate for 10 minutes at room temperature. (Add 10ul of the Biotinylated anti-Mouse IgG Reagent to 2.5 ml of the M.O.M. Dilutent).					
11. Ri	nse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.					
(Â	oply the label complex from the M.O.M. Kit, and incubate for 5 minutes at room temperature. dd 2 drops of Reagent A to 2.5 ml of 1X PBS. Mix. Then add 2 drops of Reagent B and mix. epare at least 30 minutes prior to use.)					
13. Ri	nse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.					
(A	oply the DAB chromagen, and incubate in the dark for 6 minutes at room temperature. dd 1 drop of DAB per ml of substrate) t # Exp. Date New Kit: yes / no					
15. Ri	nse the slides in tap water 3 minutes.					
16. Co	ounterstain with Harris Hematoxylin for 20 seconds.					
17. Ri	nse the slides in tap water until water is clear.					

- 18. Gently agitate slides in 1X Wash Buffer until they 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