Detection of F4/80 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

Blocking Serum: Normal Rabbit Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 011-000-001

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

Primary Antibody: Rat Anti-F4/80 Monoclonal Antibody (BM8)
Santa Cruz Biotechnology
Santa Cruz, CA 95060

www.scbt.com
1-800-457-3801
Catalog # sc-52664

Negative Control Serum: Purified Mouse IgG2a Isotype Control Serum
BD Biosciences
San Jose, CA 95131
www.bdpharma.com
1-877-232-8995
Catalog # 559073

Secondary Antibody: Biotinylated Rabbit Anti-Rat IgG (H+L) Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # BA-4001

Label Complex: Vectastain Standard Elite ABC Kit

Vector Laboratories, Inc. Burlingame, CA 94010 www.vectorlabs.com 1-800-227-6666 Catalog # PK-6100

Staining Procedure

Positive Control Tissue: Spleen - macrophages Stain Localization: Cytoplasmic and membrane

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.

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4.	Heat-Induced Epitope Retrieval Using The Decloaker
	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. <i>Maximum Pressure</i>
	Depressurize for 10 minutes.
	Remove pan top and cool for 10 minutes. <i>Temperature Before Cooling Slides</i>
	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.	Block with 5% Normal Rabbit Serum for 20 minutes at room temperature.
	Lot # Date Reconstituted
	DO NOT RINSE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.

7. <u>Avidin / Biotin Blocking Kit</u>

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.

			for 1 hour at room temperature.
L	Lot #	Exp Date	
F	For negative control slides	dilute the protein concentrat	ion of the rat IgG2a serum to match that of
tl s	the primary antibody, if neo- slides. Incubate for 1 hour	cessary. Make a 1:25 dilution at room temperature.	n from this normalized serum, and apply to the
L	Lot #	_ Date Reconstituted	
9. R	Rinse the slides in 2 change	es of 1X Wash Buffer for 5 m	ninutes each.
	temperature.		dilution, and incubate for 30 minutes at room
	Lot # D	Date Reconstituted	
11.	Rinse the slides in 2 change	ges of 1X Wash Buffer for 5	minutes each.
	temperature. (Prepare at 1	rom the Standard Elite Kit, a east 30 minutes prior to use.) New Kit: yes /	
13.	Rinse the slides in 2 change	ges of 1X Wash Buffer for 5	minutes each time.
	Apply the DAB chromage (Add 1 drop of DAB per r		or 6 minutes at room temperature.
		Exp. Date	New Kit: yes / no
15.	Rinse the slides in tap wat	er 3 minutes.	
16.	Counterstain with Harris l	Hematoxylin for 20 seconds.	
17.	Rinse the slides in tap wat	er until water is clear.	
18.	Gently agitate slides in 13	Wash Buffer until they turn	blue.
19.	Dehydrate through the fol	lowing solutions:	

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