Detection of ED2 in Formalin-Fixed, Paraffin-Embedded Rat Tissue

Reagent and Antibody Information

1X Wash Buffer
3% Hydrogen Peroxide
1% BSA Diluent
Trypsin
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: Mouse Anti-Rat ED2 Antibody AbD Serotec, Inc. Raleigh, NC 27604 1-800-265-7376 www.ab-direct.com Catalog # MCA342R

Negative Control Serum: Purified Mouse IgG1 Isotype Control Serum
BD Biosciences
San Jose, CA 95131
www.bdpharma.com
1-877-232-8995
Catalog # 557273

Secondary Antibody: Biotinylated Horse Anti-Mouse IgG (H+L) Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # BA2001

<u>Label Complex: Vectastain Elite ABC Kit (Standard)</u>

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

Staining Procedure

Positive Control Tissue: Liver (Kupffer cells) and spleen (dendrocytes)

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 slides in 3% hydrogen peroxide for 15 minutes.
- 3. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
- 4. Proteolytic-Induced Epitope Retrieval Using Trypsin

Incubate the slides in a 0.1% trypsin solution in a water bath at 37°C for 20 minutes.

(DO NOT add the trypsin to the 0.05M Tris-HCl • CaCl₂ solution until 5 minutes prior to incubation.

Trypsin looses 75% of its reactivity within 30 minutes at 37°C.)

Rinse the slides in distilled water for 1 minute to stop the enzymatic digestion.

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Э.	Kinse i	tne	snaes	1n 2	changes!	OT 1	Α.	wasn	Вu	пer	TOT .	Э.	minutes	eacn.

6.	Block with 10% Normal Horse 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 # 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.

8. Apply primary antibody at a 1:100 dilution, and incubate for 1 hour at room temperature.

Lot #	Date Aliquoted	
hour at room to	ontrol slides, apply the mouse IgG1 emperature. (Do not need to norma Date Reconstituted	
9. Rinse the slide	es in 2 changes of 1X Wash Buffer	for 5 minutes each.
room tempera	•	ary antibody at a 1:500, and incubate for 30 minutes at
11. Rinse the sli	des in 2 changes of 1X Wash Buffe	er for 5 minutes each.
temperature.	pel complex from the Standard Elite (Prepare at least 30 minutes prior to New Kit: yes	
13. Rinse slides	in 2 changes of 1X Wash Buffer fo	r 5 minutes each.
(Add 1 drop	AB chromagen, and incubate in the of DAB per ml of substrate) Exp. Date	dark for 6 minutes at room temperature.
	les in tap water 3 minutes.	
16. Counterstain	with Harris Hematoxylin for 20 sec	conds.

- 17. Rinse 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:

Solution	Repetitions	Time		
95% Ethanol	1 change	3 minutes		
100% Ethanol	3 changes	3 minutes		
Xylene	2 changes	5 minutes		

20. Coverslip