Detection of CD4 in Formalin-Fixed, Paraffin-Embedded Human Tissue

Reagent and Antibody Information

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

Staining Kit: Vectastain Elite ABC Kit (Mouse IgG)
Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # PK-6102

Note: This kit contains all reagents necessary to make the blocking reagent, 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 CD4 Ab-8 (Clone 4B12)
Lab Vision / Thermo Fisher Scientific
Fremont, CA 94539
www.labvision.com
1-800-828-1628
Catalog # MS-1528-S

Negative Control Serum: 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: Tonsil – T-cell subset (helper / inducer)

Stain Localization: Membrane

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

. 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 EDTA
(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. <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 time.

Vectastain Mouse Elite Staining Kit		
	Exp Date New Kit: yes / no	
6	. Apply the blocking solution from the Mouse Elite Kit and incubate for 20 minutes at room temperature.	
	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 - 15 minutes at room temperature.

Quick rinse in 1X Wash Buffer.

Apply biotin block - 15 minutes at room temperature.

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

8. Apply prim	ary antibody at a 1:10 dilution and	l incubate for	1 hour at room	temperature.
Lot #	Exp Date			

For negative control slides, dilute the protein concentration of the normal mouse serum to match that of

the primary antibody. Make a 1:10 dilution from this normalized serum and apply to the slides. Incubate for 1 hour at room temperature. Lot # Date Reconstituted
9. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
10. Apply the secondary antibody from Mouse Elite Kit and incubate for 30 minutes at room temperature
11. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
12. Apply the label complex from the Mouse Elite Kit and incubate for 30 minutes at room temperature.
13. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
14. Apply the DAB chromagen and incubate in the dark for 6 minutes at room temperature. (Add 1 drop of DAB per ml of substrate) Lot # Exp Date New Kit: yes / no
15. Rinse the slides in tap water 3 minutes.
16. Counterstain with Harris Hematoxylin for 30 seconds.

- 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:

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

20. Coverslip

Updated 08/05/04