## Detection of CD45 (LCA) 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

Primary Antibody: Rat Monoclonal CD45 Antibody (Biotin)
GeneTex, Inc
San Antonio, TX 78245
www.genetex.com
1-877-436-3839
Catalog # GTX19592

<u>Label Complex: Peroxidase-Conjugated Streptavidin SS Label</u>
Biogenex Laboratories
San Ramon, CA 94583

<u>www.biogenex.com</u>
1-800-421-4149
Catalog # HK330-9K

## **Staining Procedure**

Positive Control Tissue: Thymus and spleen (hematopoietic cells, except erythrocytes) Stain Localization: Cell 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.

. <u>Heat-Induced Epitope Retrieval Using The Decloaker</u> 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. <i>Temperature Before Cooling Slides</i>
Rinse the slides in 2 changes of distilled water for 3 minutes each time.

Rinse the slides in 2 changes of distilled water for 3 minutes each time.		
	DO NOT RINSE SLIDES. CONTINUE TO AVIDIN-BIOTIN BLOCK.	
5.	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.	
6.	Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.	
7.	Apply primary antibody (CD45) at a 1:250 dilution, and incubate for 1 hour at room temperature.  Lot # Exp Date	
	For negative control slides, dilute the protein concentration of the normal rat serum to match that of the primary antibody. Make a 1:250 dilution from this normalized serum, and apply to the slides. Incubat for 1 hour at room temperature.  Lot # Date Reconstituted	

3. Apply t	the Streptavidin SS Label, a	and incubate for 30	minutes at room	temperature.
Lot#	Exp Da	ate		

- 9. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.
- 10. Apply the DAB chromagen, and incubate in the dark for 6 minutes at room temperature. (Add 1 drop of DAB per ml of substrate)

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Lot #_____ Exp. Date_____ New Kit: yes / no
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- 11. Rinse the slides in tap water 3 minutes.
- 12. Counterstain with Harris Hematoxylin for 20 seconds.
- 13. Rinse the slides in tap water until water is clear.
- 14. Gently agitate slides in 1X Wash Buffer until they turn blue.
- 15. Dehydrate through the following solutions:

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

16. Coverslip

Updated 06/13/07