## Detection of Cyclin D1 in Formalin-Fixed, Paraffin-Embedded Rat Tissue

## **Reagent and Antibody Information**

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

Blocking Serum: Normal Horse Serum
Jackson Immunoresearch Laboratories, Inc.
West Grove, PA 19390
www.jacksonimmuno.com
1-800-367-5296
Catalog # 008-000-001

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

Primary Antibody Monoclonal Mouse Anti-Human Cyclin D1
Dakocytomation Corporation
Carpinteria CA 93013
www.dakousa.com
1-800-235-5763
Code No. M7155

Negative Control Serum: Mouse IgG2a Negative Control Serum
Dakocytomation Corporation
Carpinteria CA 93013
www.dakousa.com
1-800-235-5763
Code No. X0943

Secondary Antibody: Biotinylated Horse Anti-Mouse IgG (H+L) Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # BA-2001

<u>Label Complex: Peroxidase-Conjugated Streptavidin SS Label</u>

Biogenex Laboratories San Ramon, CA 94583 www.biogenex.com 1-800-421-4149 Catalog # HK330-9K

## **Staining Procedure**

Positive Control Tissue: Gastrointestinal tract

Quick rinse in 1X Wash Buffer.

Apply biotin block - 15 minutes at room temperature.

Stain Localization: Nuclear. According to the Dako specification sheet, cytoplasmic staining may occur along with nuclear in dendritic cells.

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

4. <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. <i>Maximum Pressure</i>					
Depressurize for 10 minutes.					
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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.					
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					
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Apply avidin block - 15 minutes at room temperature.					

## DO NOT RINSE SECTIONS WITH BUFFER BEFORE ADDING PRIMARY ANTIBODY. ONLY WIPE EXCESS BLOCK.

	y primary antibody			pate for 1 hour at room temperature.
the pa	rimary antibody, if s. Incubate for 1 ho	necessary. Ma	ake a 1:250 dil nperature.	tration of the mouse IgG2a serum to match that of ution from this normalized serum, and apply to the
9. Rinse	e the slides in 2 cha	inges of 1X W	ash Buffer for	5 minutes each.
rooi	oly the horse anti-menter temperature.			1:500 dilution and incubate for 30 minutes at
11. Rin:	se the slides in 2 ch	anges of 1X V	Vash Buffer for	5 minutes each.
	oly the Streptavidin			) minutes at room temperature.
13. Rin	se the slides in 2 ch	anges of 1X V	Wash Buffer for	5 minutes each.
$(\Lambda \hat{A})$	d 1 drop of DAR n	or ml of cubetr	oto)	for 6 minutes at room temperature.  New Kit: yes / no
15. Rin:	se the slides in tap	water 3 minute	es.	
16. Cou	ınterstain with Harı	ris Hematoxyli	n for 30 secon	ds.
17. Rin	se the slides in tap	water until wat	ter is clear.	
18. Gen	atly agitate slides in	1X Wash Buf	fer until they t	urn blue.
19. Deh	ydrate through the	following solu	itions:	
	95% Ethanol	1 time	3 minutes	
	100% Ethanol	3 times	3 minutes	
	Vylono	2 times	5 minutes	

20. Coverslip