## Detection of Cleaved Caspase-3 in Formalin-Fixed, Paraffin-Embedded Mouse, Rat, and Human Tissue

## **Reagent and Antibody Information**

1X Wash Buffer
3% Hydrogen Peroxide
1% BSA Diluent
1X Citrate Buffer
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: Rabbit Anti-Cleaved Caspase-3 Antibody Promega Corporation Madison, WI 53711-5399 www.promega.com 1-800-356-9526 Catalog # G7481

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

Secondary Antibody: Biotinylated Goat Anti-Rabbit IgG (H+L) Vector Laboratories, Inc.
Burlingame, CA 94010
www.vectorlabs.com
1-800-227-6666
Catalog # BA-1000

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: Thymus – apoptotic cells

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 the slides in 3% hydrogen peroxide for 15 minutes.
- 3. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each.

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. 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.
6.	Block with 10% Normal Goat 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.

	y at a 1:500 dilution, and incubate	
Lot #	Date Aliquoted	<u> </u>
the primary antibody. Incubate for 1 hour at r	Make a 1:500 dilution from this n	on of the normal rabbit serum to match that of ormalized serum, and apply to the slides.
9. Rinse the slides in 2 ch	anges of 1X Wash Buffer for 5 m	inutes each.
room temperature.	bbit secondary antibody at a 1:10  Date Reconstituted	00 dilution, and incubate for 30 minutes at
11. Rinse the slides in 2 c	changes of 1X Wash Buffer for 5	minutes each.
temperature. (Prepare	e at least 30 minutes prior to use.)  New Kit: yes / r	
13. Rinse slides in 2 char	nges of 1X Wash Buffer for 5 min	utes each.
(Add 1 drop of DAB r	•	or 6 minutes at room temperature.  New Kit: yes / no
15. Rinse the slides in tap	water 3 minutes.	
16. Counterstain with Har	rris Hematoxylin for 20 seconds.	
17. Rinse the slides in tap	water until water is clear.	
18. Gently agitate slides in	n 1X Wash Buffer until they turn	blue.
19. Dehydrate through the	e following solutions:	

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