## Detection of acetyl-Histone H3 (Lys18) 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

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-Acetyl-Histone H3 (Lys18) Antibody
Upstate Cell Signaling Solutions
Lake Placid, NY 12946
www.upstate.com
1-800-233-3991
Catalog # 07-354

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

<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: Ovalbumin lung

Stain Localization: Nuclear

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 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.
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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	n Blocking Kit		
Lot #	Exp. Date	New Kit:	yes / no
Apply avidin b	plock for 15 minutes at room ter	nperature.	
Quick rinse in	1X Wash Buffer.		
Apply biotin b	lock for 15 minutes at room ten	nperature.	

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

8.	Apply primary antibody at a 1:5000 dilution, and incubate overnight at 4°C.  Lot # Date Aliquoted
	For negative control slides, dilute the protein concentration of the normal rabbit serum to match that of the primary antibody. Make a 1:5000 dilution from this normalized serum, and apply to the slides. Incubate overnight at 4°C.  Lot # Date Reconstituted
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	Bring the slides up to room temperature in 1X Wash Buffer for at least 15 minutes.
10	<ul> <li>Apply the goat anti-rabbit secondary antibody at a 1:500 dilution, and incubate for 30 minutes at room temperature.</li> <li>Lot # Date Reconstituted</li> </ul>
1	1. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.
12	2. Apply the Streptavidin SS Label, and incubate for 30 minutes at room temperature.  Lot # Exp Date
13	3. Rinse the slides in 2 changes of 1X Wash Buffer for 5 minutes each time.
14	4. 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
1:	5. Rinse the slides in tap water 3 minutes.
16	5. Counterstain with Harris Hematoxylin for 20 seconds.
1	7. Rinse the slides in tap water until water is clear.
18	3. Gently agitate slides in 1X Wash Buffer until they turn blue.
19	9. 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