



🛡 Immunohistochemistry Protocol for Sternberger Monoclonal Antibodies V.2

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Kelsey Miller¹

¹BioLegend

BioLegend

Tech. support email: tech@biolegend.com



Sam Li

BioLegend



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Guidelines

Use with Ultra Streptavidin Detection Kit ([SIG-32250](#)) or ([SIG-32248](#))

Positive control: Normal human cerebellum (except SMI-71, which should be rat brain)



Clear Slides

- 1 Clear Slides: Removes paraffin and hydrates the tissue.

Xylene	5 minutes in each of (3) different 250mL containers
100% alcohol	5 minutes in each of (3) different 250mL containers
95% alcohol	3 minutes in (1) 250mL container
70% alcohol	3 minutes in (1) 250mL container
water	1 minutes in each of (3) different 250mL containers
H2O2 (3%)	15 minutes in (1) 250mL container


Rinse slides

- 2 Rinse slides with lab grade water.


Note: Lab grade filtered water such as injection grade, cell culture grade, Reverse Osmosis De-ionization (RODI)

Antigen Retrieval


- 3 Heat slides in 1X Retrieve ALL3 solution for 1 minute 40 seconds on high power in microwave

 00:01:40

- 4 Reduce to low power and simmer 10 minutes in microwave.


 00:10:00

- 5 Remove from microwave and allow slides to cool on the bench top for 10 minutes.

 00:10:00





- 6 Rinse slides with lab grade water.

- 7 Apply serum block for at least 5 minutes. Do NOT wash after this step.





 00:05:00

- 8 Blot off serum block.



- 9 Apply primary antibody (see recommended dilution from datasheet).
- 10 Incubate primary antibody 60 minutes at room temperature.
 01:00:00
- 11 Rinse slides with 1X PBS.
- 12 Apply USA Linking reagent - 20 minutes incubation.
(If using a biotinylated product, omit this step)
 00:20:00
- 13 Rinse slides with 1X PBS.
- 14 Apply Labeling Reagent - 20 minutes incubation.  00:20:00
- 15 Rinse with 1X PBS.
- 16 Apply chromogen - 5 minutes incubation. Dilute according to manufacturer's instructions.
 00:05:00
 1. AEC Chromogen: 20 μ L AEC chromogen + 1mL AEC substrate buffer
 2. DAB Chromogen: 40 μ L DAB chromogen + 1mL DAB substrate buffer

Counterstain

- 17 Submerge slides in Mayer's Hematoxylin for 30 seconds.
 00:00:30
- 18 Rinse under running lab grade water for 1 minute or until water is clear.
 00:01:00
- 19 Submerge slides in Bluing Reagent for 1 minute.
 00:01:00
- 20 Rinse under running lab grade water for 1 minute.
 00:01:00



Clear slides

21 Clear slides: Dehydrate the tissue.

1. 95% alcohol 3 minutes in (1) 250mL container
2. 100% alcohol 5 minutes in each of (3) different 250mL container
3. Xylene 5 minutes in each of (3) different 250mL container

Coverslip

22 Cover slip slide using Permanent Aqueous Mounting Medium (**SIG-31010**).

Note: Do not use xylene based mount with AEC Chromogen as it will dissolve the chromogen