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Diaminobenzidine (DAB) Staining

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This protocol is used to stain paraffin-embedded mouse brain tissue.

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| 1 | To paraffin-embedded tissue, deparaffinize in 100% xylenes for 3x 5 minutes. | 15m |
| 2 | Incubate in 100% ethanol for 2x 5 minutes. | 10m |
| 3 | Incubate in 70% ethanol for 5 minutes. | 5m |
| 4 | Incubate in 50% ethanol for 5 minutes. | 5m |

- 5 Incubate in 1X PBS for 5 minutes. 5m
- 6 Perform antigen retrieval by incubating tissue in 1X sodium citrate for 20 minutes at 95°C. 20m
Sodium citrate: 10mM sodium citrate + 0.05% Tween-20, pH6
- 7 Wash with 1X PBS for 5 minutes. 5m
- 8 Incubate in 0.9% H₂O₂ for 10 minutes at room temperature. 10m
- 9 Wash with 1X PBS for 5 minutes. 5m
- 10 Incubate in blocking buffer for 1 hour at room temperature. 1h
Blocking buffer: 10% serum + 0.05% Triton X-100 in 1X PBS
- 11 Wash with 1X PBS for 5 minutes. 5m
- 12 Incubate in primary antibody diluted in blocking buffer overnight at 4°C. 1d
- 13 Wash with 1X PBS for 5x 5 minutes. 30m
- 14 Incubate in secondary antibody diluted in blocking buffer for 1 hour at room temperature. 1h

15	Wash with 1X PBS for 5x 5 minutes.	30m
16	Incubate in streptavidin horseradish peroxidase diluted in 1X PBS for 1 hour at room temperature.	1h
17	Wash with 1X PBS for 5x 5 minutes.	30m
18	Expose to DAB for 3-10 minutes then rinse in 1X PBS for 2x 2 minutes.	15m
19	Incubate in 50% ethanol for 2 minutes.	2m
20	Incubate in 70% ethanol for 2 minutes.	2m
21	Incubate in 100% ethanol for 2 minutes.	2m
22	Incubate in 100% xylenes for 5 minutes.	5m
23	Coverslip with Permount and a #1.5 coverslip.	1m