

### Feb 15, 2022

# Peroxidase/DAB protocol

## Christiana.bjorkli 1

<sup>1</sup>The Norwegian University of Science and Technology



dx.doi.org/10.17504/protocols.io.b44fqytn

## Sandvig lab

Christiana.bjorkli

Peroxidase/DAB protocol for chromogen labelling

DOI

dx.doi.org/10.17504/protocols.io.b44fqytn

Christiana.bjorkli 2022. Peroxidase/DAB protocol. **protocols.io** https://dx.doi.org/10.17504/protocols.io.b44fqytn

F

\_\_\_\_\_ protocol,

Feb 15, 2022

Feb 15, 2022

58215

1 Leave sections in [M]0.125 Molarity (M) phosphate buffer (PB) at & 60 °C

2h

1.1 Dilute 0,4M **PB**. Store in refrigerator for up to 1 week.

100 ml: 31,25 ml [M] 0.4 Molarity (M) PB + 68,75 ml H<sub>2</sub>O

Rinse sections 2 x 10min in PB

20m



3.1 **Tris**: 3,03 gram/500 mlH<sub>2</sub>0

NaCI: 4,48 gram/500 mlH<sub>2</sub>0

**Triton-X-100**:  $2,5 \text{ ml}/500 \text{ mlH}_2\text{O}$ 

Use HCl to adjust the P+8. Store in refrigerator for up to one week.

4 Incubate with 10% goat serum in TBS-Tx

30m

5 Incubate with primary antibody (AT8; MAP2) 1:1000 in TBS-Tx with 5% goat serum, overnight in refrigerator § 4 °C

12h

6 Rinse 3 x 10 min in TBS-Tx

30m

Mix secondary antibody during first wash, and start dissolving DAB during second wash. Leave DAB on heated stirrer for 2 hours, then leave on bench.

### 6.1 DAB

Dissolve 1 tablet (10 mg) in 15 ml **Tris-HCl** by leaving it on a stirrer with heat (max & 50 °C) for about 2 hours. Add 12  $\mu$ L  $H_2O_2$  just before use and filtrate.

For dissolving the **DAB** use a brain cup (or any other cup you can throw away) For filtrating the **DAB** use a disposable syringe with filter.



Remember that  ${\bf DAB}$  and  ${\bf H_2O_2}$  are hazardous chemicals. Wear gloves, work in the hood, and put the  ${\bf DAB}$ -solution and the first  ${\bf HCI}$ -waste in the  ${\bf DAB}$  waste-bottle.

/	goat serum, in room temperature	
	Mix ABC right before next step	
	7.1 From the <b>ABC</b> -kit, put 1 drop of <b>solution A</b> and 1 drop of <b>s TBS-Tx</b> . Mix well and leave on the bench for 30 min before	
8	Rinse sections 3 x 10 min in <b>TBS-Tx</b>	30m
9	Incubate with ABC in room temperature	1h 30m
10	Rinse 3 x 10 min in <b>TBS-Tx</b>	30m
11	Rinse 2 x 5 min in <b>Tris-HCI</b>	10m
12	Incubate with DAB	10m
13	Rinse 2 x 5 min in <b>Tris-HCI</b>	10m
14	Mount sections in <b>Tris-HCI</b> on Superfrost slides and let them dry	
15	Coverslip with <b>Xylene</b> and <b>Entellan</b>	
m prote	ocols.io 3	

1h,30m,

