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Frank II

HIGH PERFORMANCE ANTIBODIES ... AND MORE

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Immunocytochemistry Protocol

Note: Do not let the tissues dry out once they are re-hydrate.

Use separate tubs for antibodies and negative control slides to avoid contamination.

MATERIALS

4% PFA fixed cell arrays

Coverslips

Slide racks

Staining dishes with lids

Plastic slide tray (Baxter Scientific Cat. No. M6304)

Orbital shaker

Transfer pipettes

Deionized water (DI H₂O)

PBS (Phosphate Buffered Saline)

Triton X-100

Hydrogen peroxide (H₂O₂)

Primary antibody

Biotinylated secondary antibody, HRP conjugated

Bovine Serum Albumin (BSA – for blocking)

Streptavidin-HRP

DAB

Hematoxylin (optional)

Acetic Acid (optional)

Glycerol

Permeabilize Membrane (Optional if detecting a membrane protein.)

- 1. Add one drop of PBS/0.1% Triton X-100 to each well to permeabilize the cells. Incubate slides for one (1) minute at room temperature.
- 2. Remove the liquid and wash the slides twice (2x) in PBS, 5 minutes each on the shaker.
- 3. Remove the liquid and place the slides onto a tray.

Blocking

- 4. Soak slides in 1.5% H₂O₂ /PBS solution for 15 minutes.
- 5. Wash twice (2x) in PBS for 5 minutes each on the shaker.
- 6. Incubate with 5% BSA into each well to block for overnight at 4°C in a humid chamber.

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Primary Antibody

- 7. Dilute the primary antibody to the recommended concentration in 1% BSA diluent.
- 8. Remove BSA from the slides.
- 9. Add 35µL of primary antibody to each well. Incubate for one (1) hour at room temperature.
- 10. Remove the primary antibody solution and wash slides three (3) times in PBS, 5 minutes each on the shaker.

Secondary Antibody and Detection

- 11. Dilute the biotinylated secondary antibody to 1:200 in a solution of 1% BSA diluent.
- 12. Remove the excess fluid and add one drop secondary antibody solution into each well. Incubate for one (1) hour at room temperature.
- 13. Wash in PBS three (3) times 5 minutes each on an orbital shaker. Remove excess fluid.
- 14. Add one drop streptavidin-HRP to each well. Incubate for 30 minutes at room temperature.
- 15. Wash three (3) times 5 minutes in PBS on an orbital shaker. Remove excess fluid.
- 16. Add DAB solution to each cell well. Once the cells start turning brown (inexperienced technicians may wish to observe this under a microscope) wash twice (2x) in PBS for 5 minutes each time on the shaker.

Optional Counterstain

- 17. Dip the slide rack with the slides into a staining dish of hematoxylin for 30 seconds.
- 18. Remove and place into an acid bath (200mL DI H_2O and one to three drops of acetic acid). Rinse with DI H₂O.

Cover Slips

- 19. Add several drops of coverslip solution (50% glycerol / DI H_2O) to the slide.
- 20. Place the coverslip on top of the slide.
- 21. Store slides at room temperature.

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