

# Suggested Western Protocol for REDI-PRO™ ImmunoBlots

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#### **MATERIALS**

- REDI-PRO™ ImmunoBlot
- Filter Paper (Whatman)
- Tweezers
- X-ray film
- X-ray film processor
- Pipette tips
- Pipettor, small volumes

#### **BUFFERS**

### **Blocking Buffer**

- 5% non-fat dry milk
- TBST

#### Wash Buffer (TBST)

- 125 mM NaCl
- 25 mM Tris pH 8.0
- 0.1% Tween-20

## Rehydration

1. Soak the blot in blocking buffer for 30 minutes prior to use.

## Blocking

- 2. Incubate the blot with blocking buffer overnight at 4°C or 2 hours at room temperature with gentle agitation.
- 3. Remove blot from blocking solution.

### **Primary Antibody Incubation**

- 4. Dilute antibody to the recommended dilution in 10mL of blocking buffer.
- 5. Incubate the blot with the primary antibody for one (1) hour at room temperature or overnight at 4°C.
- 6. Wash the blot three (3) times 10 minutes each in washing buffer with gentle agitation.

#### **Secondary Antibody Incubation**

- 7. Dilute 1µL anti-rabbit IgG-HRP conjugated secondary (or other appropriate secondary) in 10mL of blocking buffer to make a 1:10000 dilution
  - a. *Note*: working dilution of secondary can vary from 1:2000 to 1:10000.



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- 8. Incubate blot with secondary antibody for one (1) hour at room temperature.
- 9. Wash three (3) times for 10 minutes each in washing buffer with gentle agitation.

### **Development**

- 10. Drain wash buffer
- 11. Add ECL solution (Amersham) per manufacturer directions and develop for 1 minute.
- 12. Drain the fluid.
- 13. Cover the blot in plastic wrap.
- 14. Expose the blot to X-ray film for 1 minute in a dark room.
  - a. If there is no banding, expose the film for 5 minutes, then 30 minutes and up to overnight if the signal is weak.
  - b. If the signal is strong, expose the film for 30 seconds or less.
- 15. Develop the film in an X-ray processor

#### **Notes**

16. Optimal dilutions should be determined by each laboratory for each antibody.

#### Reprobing

- 17. Incubate blot for 10 minutes at room temperature in 100mM Glycine, pH 2.5.
- 18. Wash for 10 minutes in DI H<sub>2</sub>O.
- 19. Redo protocol above.