

## Western blotting

1. Make SDS + 10% polyacrylamide gels, running buffer (Maniatis recipes).
2. Load 15 µl sample per well. Run at 80 V until samples pass through stacking gel and enter resolving gel, then change to 100 V.

*\*Check periodically for buffer leakage and add fresh running buffer to top of gel as needed.\**

3. Set up transfer in transfer buffer (Maniatis recipe).
4. Block for 1 hour in TBS-T + 4% milk powder.

TBS-T = TBS + 0.1% Tween-20

5. Probe overnight at 4°C. For insulin sensitivity, use Cell Signaling antibodies against *Drosophila* PO<sub>4</sub>-Akt (#4054) or pan-Akt (#4691) and anti-syntaxin (DSHB 8C-3, as a loading control).

Dilute anti-Akt at 1:500. Dilute anti-syt at 1:10,000. Use TBS-T + milk as the diluent.

Can be reused several times. Save some blocking soln. to use for secondary antibody.

6. Rinse, then wash 3x in TBS-T.
7. Dilute secondaries 1:5,000 in TBS-T + milk. (= 3 µL each antibody + 15000 µL TBS-T-milk)

SECONDARIES are labeled "HRP anti-rabbit" and "HRP anti-mouse"

In GREEN BOX in the refrigerator

anti-Akt are raised in rabbit; anti-syntaxin are raised in mouse.

8. Incubate 1-1.5 hours shaking at room temp.
9. Rinse, then wash 3x in TBS-T.
10. Meanwhile, make up 2 ml per blot chemiluminescent substrate: 1 ml from each bottle
11. After blot is washed and substrate has come to room temperature, add substrate to blot and incubate for 5 minutes.
12. Drain off excess substrate and expose for 15 sec to 15 minutes on Chemi-Doc.