Protocol for GST-Fusion Protein Pulldown/Western Blotting Analysis Lan Zhou 1/20/03; edited by TCH

Preparation of cell lysate

- 1, transfect cell lines in T-25 flasks with your interest gene;
- 2, lyse cells with IP lysis buffer-PI after 30-48hrs (T25 flask, add 2 ml buffer);
- 3, spin down the lysate to get the super.
- 4, pre-clear lysate with blank beads (1ml lysate: 80ul blank beads----tumble it for 1 hr @ 4C);
- 5, spin down to collect the super.

Pulldown

- 1, Pre-clear lysate (100ul) + GST-fusion protein (elusion protein, not beads) ---- incubate it @4C for 1 hr;
- 2, add blank beads 10ul to each reaction tube and tumble @4C for 1hr;
- 3, Spin down and remove the super.
- 4, wash the beads 3 times with IP-PI buffer;

SDS-PAGE and Transfer

- 1, add IP buffer 5ul and 2X loading buffer 10 ul and 2-ME 3ul;
- 2, boil it for 10 mins
- 3. load it on SDS-PAG.
- 4, Run: 180V and 30mA for 1hr to 1:20 hrs;
- 5, transfer proteins to the membrane: 250mA + 40mins to 60mins(depends on the MW of target protein)

Western Blotting

Blacking(90mins); 1st antibody incubation(60-90min) wash 3 times

2nd antibody incubation(30-40min)

wash 3 times

add the ECL detection reagent mix and wait for 1 min expose the membrane.