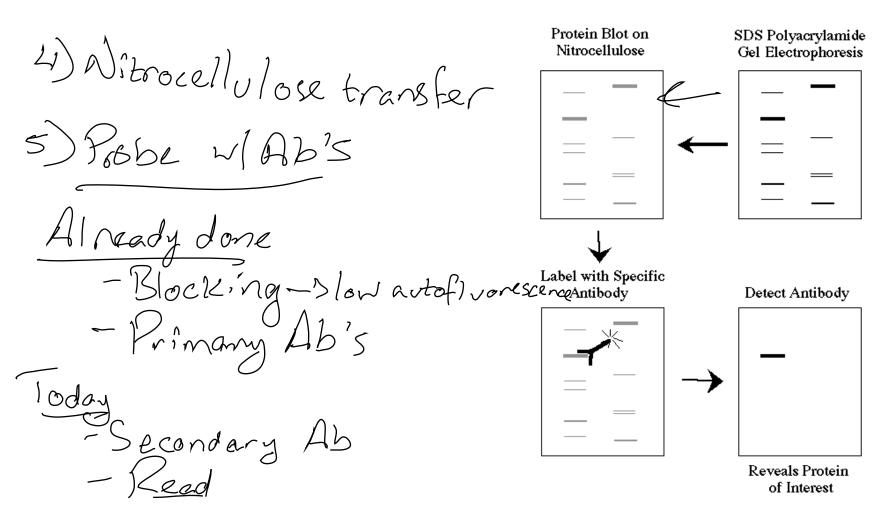
# Mod 2 Day 6: Analysis & Planning II 10/30/2013

- 1. Pre-lab Discussion, Mid-Term Evaluations
- 2. Western Blot: Secondary antibody addition
- 3. Imaging the Western Blot (Licor Odyssey)
- 4. <u>Tissue Culture</u>: High Throughput Viability Assay

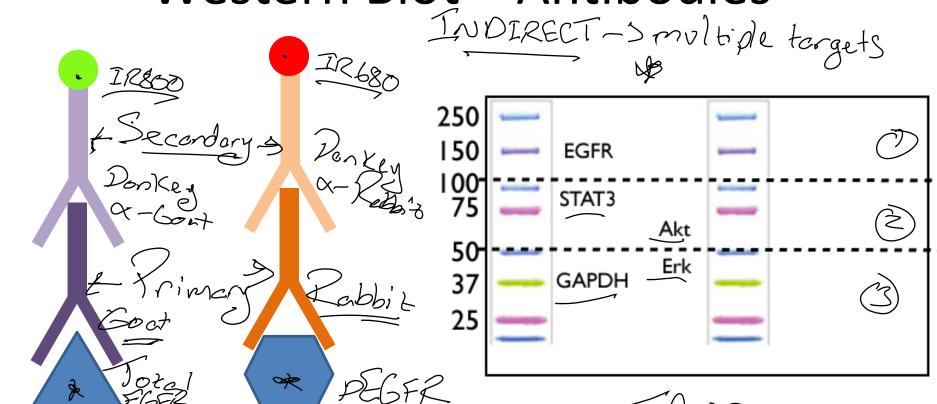
#### Notes on Introductions & Reports

- 1. Motivating sentence required! Why should I read your paper?
- 2. What is the goal? Let this be your guide.
- 3. Logical progression.
- 4. Preview of the rest of the manuscript hypothesis/methods/results/conclusions
- 5. Class-wide data

### Throwback: Mod 2 Day 4: Western Blot



#### Western Blot – Antibodies



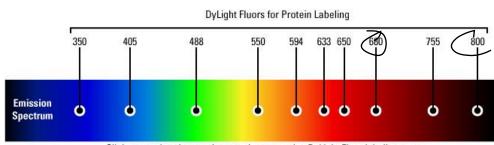
#### Host-specific antibodies:

Primary – <u>goat anti-EG</u>FR

rabbit anti-pY1068-EGFR

Secondary – donkey anti-goat IR800

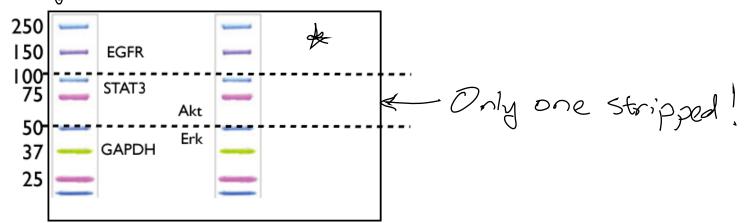
donkey anti-rabbit IR680



Click on a color above to jump to the respective DyLight Fluor labeling page Or see our new DyLight Specialty Dyes that span the length of the spectrum!

## 100/ified

#### Western Blot – Antibodies



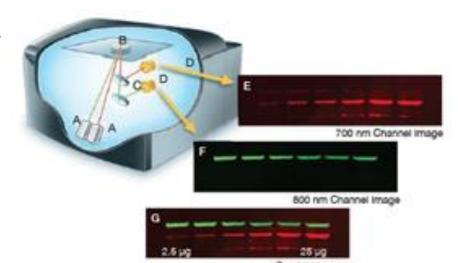
AKt
Total -> rabbit
Strip Ab's
0,2m N20H
THEN TOTAL AKT

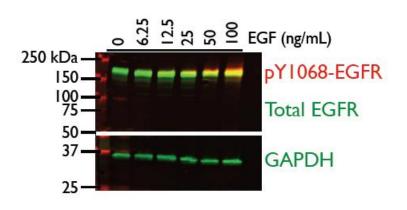
Wednesday | October 30, 2013

	Primary Ab	Species	Secondary Ab	Akt?	Erk?	STAT3?
<	EGFR	Goat	anti-Goat IR800	*	*	*
	p-EGFR	Rabbit	anti-Rabbit IR680	*	*	*
~	GAPDH	Rabbit	anti-Rabbit IR800	*		*
2	p-Akt 🖙	Rabbit	anti-Rabbit IR800	*		
	Total Akt	Mouse	anti-Mouse IR680	*		
,	p-Erk	Rabbit	anti-Rabbit IR800		*	
4	Total Erk	Mouse	anti-Mouse IR680		*	
4	p-STAT3	Rabbit	anti-Rabbit IR800			*
	STAT3	Mouse	anti-Mouse IR680			*

#### Read on Licor Odyssey

Inverted microscope/comers Lasers to excite fivor. Store for a long time





ORemore princry

Dash 3x TBS-1

Dain

T=Tween 20

SE: Secondary Ab & Wash

Dash TBS-7 3x

This

The pash TBS-7 3x

The pash TBS-7 3x

#### High-Throughput Viability Assay

Lyour choice inhib.)
Inhibitor X

Di Wed

SRED

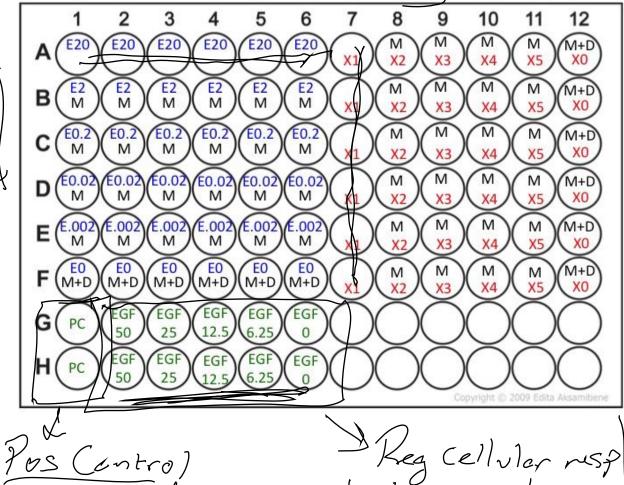
Erlotnis

3/20

BUT, everything will be red this time (b/c media)



Set-up Plate



Media + 11. Donso activate EGF,?

Final concentrations will be... Las in EGF dilutions

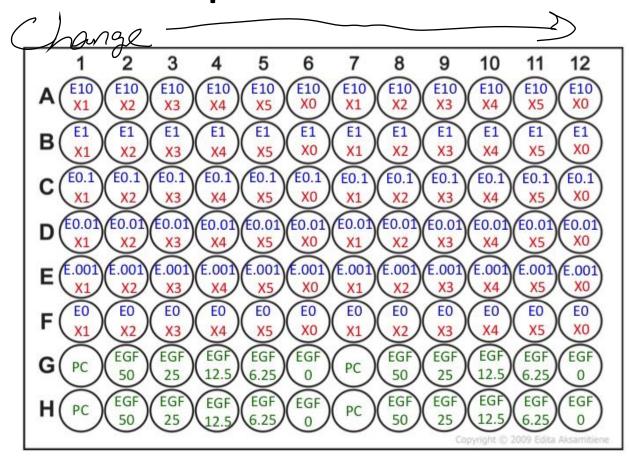
Xills cells!

M= mcCoy's media + 11. Servm +12.5 mg/L EGF

Myltichamel For dilutions

Keg Cellular russ M+D-> Media to how much we 10.0011. DMSD Ed XI-DErlotrib XX

#### **Experimental Plate**





#### Hints

 Have everything ready before media is removed from cells

 Do not change aspirating pipette/wash with ethanol between wells. Do not touch cells.

Leave a bit of media

"Purposeful pace"!

#### Next time

- CellTiler-Glo
  - Add CTG reagent to lyse cells
  - Incubate for 20 minutes
  - Measure luminescence signal

Done!



#### Today!

- <u>Tissue Culture</u>:
   Orange, Yellow, Purple
- Western Blot: White, Pink, Green, Red, Blue

#### Mod 2 Day 7:

- CellTiler-Glo assay (here or in Koch)
- Analyze with Matlab/Excel on personal computer (can be done in lab or on your own time)
- M2D6 FNT due Sunday, Nov 2<sup>nd</sup> at 5pm to Stellar!