Exercise 2 Coding

Experimental Setup

Strains:

* NoTags
* ProX-Null
* ProY-Null
* His-ProX-FLAG
* His-ProY-FLAG

Variables to use:

* Treatment

Treatment details:

Treatment Name

* Growth Media + Buffer
* Growth Media + ProK

Use the following samples for experiments: (use all combinations)

|  |  |
| --- | --- |
| Strain | Treatments |
| NoTags | Growth Media + Buffer |
| Growth Media + ProK |
| ProX-Null | Growth Media + Buffer |
| Growth Media + ProK |
| ProY-Null | Growth Media + Buffer |
| Growth Media + ProK |
| His-ProX-FLAG | Growth Media + Buffer |
| Growth Media + ProK |
| His-ProY-FLAG | Growth Media + Buffer |
| Growth Media + ProK |

Group by: Strains**,** Then by Treatment, then by duration (default settings)

Western Blotting

What samples are available?

* Whole cell lysate

What percentage acrylamide?

* 10%
* 12%
* 15%

Antibodies

|  |  |
| --- | --- |
| Primary | Secondary |
| Mouse anti-Protein X | Rabbit anti-Mouse |
| Rabbit anti-Protein Y | Goat anti-Rabbit |
| Mouse anti-6xHis | Rabbit anti-Mouse |
| Rabbit anti-FLAG | Goat anti-Rabbit |
| Mouse anti-PGK1 | Rabbit anti-Mouse |

For sample and sizes/intensities see excel document:

Lisa’s Exercises -> Exercise 2 -> SCB coding Exercise 2 (latest version)

Background Bands?

* NO

Flow Cytometry

Sample Prep:

|  |  |  |
| --- | --- | --- |
| Cell Treatments | Analysis | Conditions |
| Fixed Cells | Antibody-labeling | His A488 |
| Fixed Cells | Antibody-labeling | FLAG A590 |
| Fixed Cells | Antibody-labeling | ProX A488 |
| Fixed Cells | Antibody-labeling | ProY A488 |

Analyze:

See SCB coding Exercise 2 for the possible histograms, the list of samples assigned to each histogram, and details about axes labels