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Western Blot Analysis

DOI

<https://dx.doi.org/10.17504/protocols.io.kxygxwqpzv8j/v1>

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Protocol status: Working

We use this protocol and it's working

Created: December 19, 2024



Last Modified: January 30, 2025

Protocol Integer ID: 119308

Keywords: ASAPCRN, western blot analysis this protocol detail, western blot analysis, protocol detail, protocol

Funders Acknowledgements:

Aligning Science Against Parkinson's (ASAP)

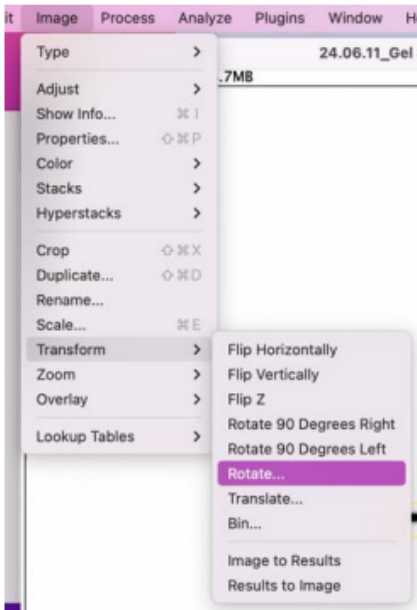
Grant ID: ASAP-020527

Abstract

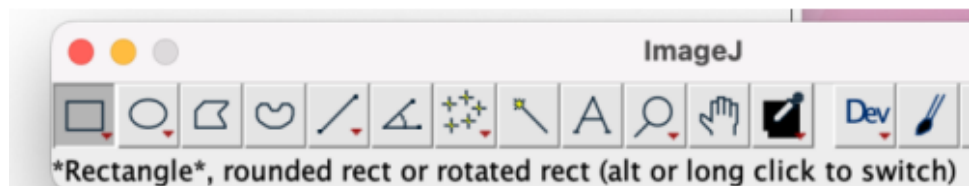
This protocol details the western blot analysis.

Image J Western Blot

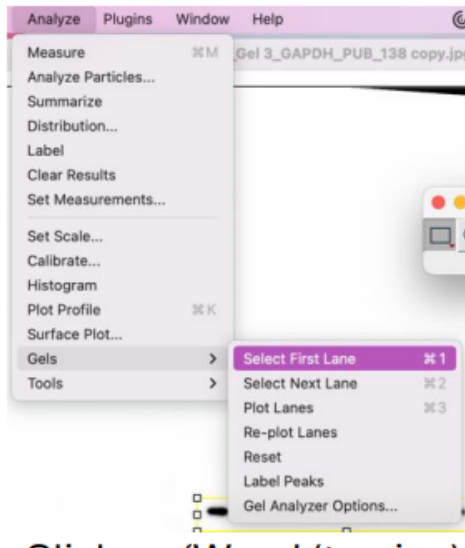
- 1 Drag Western Blot jpg file in Image J.
- 2 Click on 'Image' tab → 'Transform' → 'Rotate' and adjust image to make sure the lanes are horizontal.



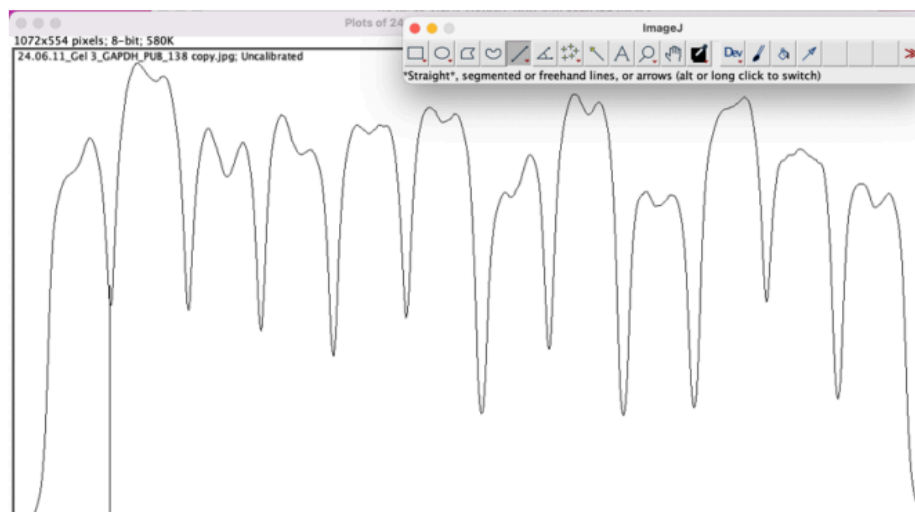
- 3 Click on the 'rectangle tool' and select the bands you want to analyze.



- 4 Click on the 'Analyze' tab → 'Gels' → 'Select First Lane' (or Control 1) → 'Plot Lanes' (or Control 3).



- 5 Click on 'Straight' tool to divide the peaks. Draw lines to divide peaks. Hold 'Shift' while drawing lines for a straight line.



- 6 Click on 'Wand (tracing) tool' and select each individual peak. A new window should pop up for the area under each peak.
- 7 Once you have all the areas (integrated densities) for each peak (band). Copy and paste the values into excel corresponding to their ID from the gel layout.



- 8 Do the same for the control protein.
- 9 Then divide the ID of your target protein/ID ctl.
- 10 Graph and do stats on these values in GraphPad.