

Nov 12, 2023

Version 1

DOI

dx.doi.org/10.17504/protocols.io.36wgq3ep5lk5/v1

Leonardo A Parra-Rivas¹

¹University of California, San Diego



Leonardo A Parra-Rivas

University of California, San Diego

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN ACCESS



DOI: https://dx.doi.org/10.17504/protocols.io.36wgq3ep5lk5/v1

Protocol Citation: Leonardo A Parra-Rivas 2023. Immunoprecipitations and Western blots analysis. **protocols.io** https://dx.doi.org/10.17504/protocols.io.36wgq3ep5lk5/v1

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: November 12, 2023



Last Modified: November 12, 2023

Protocol Integer ID: 90818

Keywords: western blots analysis immunoprecipitation

Abstract

Immunoprecipitations and Western blots analysis

Troubleshooting



- 1 Immunoprecipitations were performed using 1-2 mg of total protein. Samples were incubated overnight with the indicated antibody at 4° C, followed by the addition of 50 μl of protein G-agarose beads (Thermo Scientific, Cat#20397).
- Immunoprecipitated proteins were recovered by centrifugation at 2,500× rpm for 2 min, washed three times with a buffer containing PBS and 0.15% Triton X-100. The resulting pellets were resuspended in 20 μ l of 1X NuPAGE LDS sample buffer (Thermo Scientific #NP007) and incubated at 95 °C for 10 min. Samples were separated by NuPAGE 4 to 12% Bis-Tris polyacrylamide gels (Thermo Scientific #NP0335BOX), and transferred to a 0.2 μ M PVDF membrane (Thermo Scientific #LC2002), using the Mini Blot Module system (Thermo Scientific).
- PVDF membranes were first fixed with 0.2% PFA 1x PBS per 30 min at room temperature. Then, membranes were washed three times for 10 min in PBS with 0.1% Tween 20 Detergent (TBST) and blocked for 1 h in TBST buffer containing 5% dry milk, and then incubated with the indicated primary antibody for 1 h in blocking solution, washed three times for 10 min each and incubated with HRP-conjugated secondary antibodies (RRID:AB_2819160), (RRID:AB_2755049).
- After antibody incubations, membranes were again washed three times with TTBS buffer, and protein bands were visualized using the ChemiDoc Imaging System (BioRad) and quantified with Image Lab software version 6.1 from BioRad (RRID:SCR_014210) http://www.bio-rad.com/en-us/sku/1709690-image-lab-software.