

NOV 08, 2022



WORKS FOR ME

Western Blot

This protocol is published without a DOI.

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COMMENTS 0

**ABSTRACT** 

Western Blot Protocol

PROTOCOL CITATION

Elena Coccia, gustavo.parfitt 2022. Western Blot. **protocols.io** <a href="https://protocols.io/view/western-blot-cig3ubyn">https://protocols.io/view/western-blot-cig3ubyn</a>

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**CREATED** 

Oct 27, 2022

LAST MODIFIED

Nov 08, 2022

PROTOCOL INTEGER ID

71931

protocols.io

50m

1

10m

10s

- Prepare the appropriate amount of RIPA buffer with Protease and Phosphatases Inhibitor Cocktail (Roche) and maintain On ice
- Collect cells/organoids in PBS & On ice in an eppendorf and spin down \$500 rpm, 4°C, 00:05:00
- Add appropriate amount of lysis buffers (1:50 v/v proportion between cell pellet and lysis buffer) to the pellet and pipette up and down
- 3.1 For organoid samples use an homogeniser
- 4 Incubate samples for 00:30:00 & On ice . Spinning every 00:10:00
- Centrifuge at 15000 x g for 00:10:00 at 4 4 °C and collect the supernatant in a new tube.
- 6 If SDS fraction is desired, add [M] 2 Mass / % volume SDS to RIPA buffer and resuspend pellet from step 5.
- 6.1 Sonicate the sample a 3 times for 00:00:10 to ensure fragmentation of genomic DNA released during lysis and consequently reduce viscosity
- 7 Quantify protein concentration.

## SDS-PAGE 8 Mix 20-30 µg of protein with Laemmli's loading buffer 9 Denaturate the proteins by incubation at 95°C for 00:05:00, spin briefly before loading 10 Load pre-cast gel into Western Bloat apparatus and fill with Running Buffer (BioRad). 11 Load samples and protein ladder into gels, Run the gel at 120V for 00:45:00 to ensure protein separation.



Remove membrane from transfer and place into a box with blocking buffer: 5% BSA In TBS-T (20mM Tris-HCl, 150mM NaCL pH8, 0.1% Tween20). Block for 01:00:00

1h

- 13.1 If alpha-synuclein is to be blotted, fix the membrane with 4% PFA in PBS for 00:30:00 prior to blocking
- Once blocked, sequentially probe the membrane for antibody staining and detection. Antibody dilution might need optimization.

