

Oct 25, 2022

Version 2

Western Blotting (Fly Heads) V.2

 In 1 collection

DOI

dx.doi.org/10.17504/protocols.io.8epv5j96jl1b/v2

Mel Feany^{1,2}

¹Brigham and Women's Hospital; ²Harvard Medical School

Daniel's workspace



Daniel El Kodsí

Brigham and Women's Hospital and Harvard Medical School

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.8epv5j96jl1b/v2>

Protocol Citation: Mel Feany 2022. Western Blotting (Fly Heads). **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.8epv5j96jl1b/v2> Version created by **Daniel El Kodsí**

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: October 25, 2022

Last Modified: May 31, 2024

Protocol Integer ID: 71786

Keywords: ASAPCRN, western blotting technique, using fly head, western blotting, blotting technique, fly head, head, protocol

Abstract


This protocol describes how to perform a Western Blotting technique using fly heads.

Troubleshooting



- 1 Homogenize desired number of fly heads in 1 X Laemmli sample buffer.
- 2 Heat samples to 100 °C for 00:10:00 , spin briefly before loading. 10m
- 3 Load premade gel into western blotting apparatus. Fill reservoir with Running Buffer:
Running Buffer:
 6 g Tris-HCL
 28.9 g glycine
Fill to 1 L with distilled water
Add 5 mL 20% SDS
- 4 Load samples on gel and attach electrodes.
- 5 Run gel at 120 V until dye front reaches the bottom of the gel, 01:00:00 . Run longer for greater separation. 1h
- 6 Remove gel and transfer using Trans-Blot Turbo.
- 7 Perform antigen retrieval by microwaving 00:09:00 in PBS. 9m
- 8 Block membrane in 1X PBS with 0.05% Tween-20 and 3% dry milk for 01:00:00 . 1h
- 9 Add primary antibody at correct dilution in PBSTween + milk and incubate with shaking Overnight at 4 °C .
- 10 Wash blot 3x in PBSTween, 00:05:00 each, with shaking. 5m
- 11 Add secondary antibody at the correct dilution in PBSTween + milk, incubate with shaking at Room temperature for 03:00:00 . 3h



12 Wash blot in PBSTween  00:30:00 with frequent wash changes.

30m

13 Develop with ECL substrate or image fluorescence, as appropriate.