

May 09, 2024

Native Nanobleach of native nanodiscs

DOI

<https://dx.doi.org/10.17504/protocols.io.ewov19nbklr2/v1>

Caroline Brown^{1,2,3}, Gerard Walker^{1,2,4}, Snehasish Ghosh^{1,2,3}, Kallol Gupta^{1,2,3}, Moitrayee Bhattacharyya⁴

¹Nanobiology Institute, Yale University, West Haven, CT, USA;

²Department of Cell Biology, Yale University School of Medicine, New Haven, CT, USA;

³Aligning Science Across Parkinson's (ASAP) Collaborative Research Network, Chevy Chase, MD, 20815;

⁴Department of Pharmacology, Yale University, New Haven, CT, USA



Caroline Brown

Yale University

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.ewov19nbklr2/v1>

Protocol Citation: Caroline Brown, Gerard Walker, Snehasish Ghosh, Kallol Gupta, Moitrayee Bhattacharyya 2024. Native Nanobleach of native nanodiscs. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.ewov19nbklr2/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: May 09, 2024

Last Modified: May 09, 2024

Protocol Integer ID: 99521

Keywords: native nanobleach of native nanodisc, native nanobleach, native nanodisc, protocol

Abstract

This is a protocol to conduct Native Nanobleach of native nanodiscs.



- 1 Note, this method is adapted from Walker, Brown, et al. (DOI: [10.1038/s41565-023-01547-4](https://doi.org/10.1038/s41565-023-01547-4)).
- 2 Prepare flow chamber by treating with poly-L-lysine (PLL) PEG and PEG-biotin.
- 3 Add streptavidin to flow chamber.
- 4 Add biotinylated GFP-nanobody to flow chamber.
- 5 Add native nanodiscs to the flow chamber for immobilization.
- 6 Conduct step-photobleaching analysis using TIRF microscopy.