JAN 18, 2024

OPEN ACCESS

Single-Molecule Antibody Slides For Fluorescence Microscopy

Rebecca Andrews[1]

[1]Univeristy of Cambridge

Rebecca Andrews
Univeristy of Cambridge

ABSTRACT

This protocol describes how to create single-moelcule antibody slides for fluorescence microscopy.

DOI:
dx.doi.org/10.17504/protocols.io.ewov1qbbygr2/v1

Protocol Citation: Rebecca Andrews 2024. Single-Molecule Antibody Slides For Fluorescence Microscopy . **protocols.io** https://dx.doi.org/10.17504/protocols.io.ewov1qbbygr2/v1

Protocol status: Working
We use this protocol and it's working

Created: Jan 18, 2024

Last Modified: Jan 18, 2024

PROTOCOL integer ID:
93745

Keywords: ASAPCRN

Coverslip Cleaning

1h 0m 10s

1 Coverslips (24 x 50 mm, #1, VWR,Catalogue Number 48404-453) were argon plasma cleaned (Ar pla 30m
cleaner, PDC-002, Harrick Plasma) for 00:30:00 .

Surface preparation

1h 0m 10s

2 A trimmed gasket was placed on top of the slide (CultureWell™ Reusable Gasket, 6mm diameter, Grace Bio-Labs, SKU: 103280).

3 Poly-L-Lysine 30 µL (0.01 % w/v PLL, P4707, Sigma-Aldrich) was placed in the wells for 30m
00:30:00 .

4 The PLL was removed, the wells washed three times with PBS (pH 7.4, 1x Gibco, Thermo Fisher Scientific, Catalogue number 10010023)

Depositing Antibodies

1h 0m 10s

5 A secondary antibody of choice was added at a final concentration of 0.0002 mg/ml in PBS.

6 The antibodies were left in the wells for 5-10 seconds for sufficient surface density before the wells w 10s
washed three times with PBS.

7 PBS 30 µL was left in the wells for imaging