





ABIN7529450

RFP-Catcher (agarose magnetic) High-affinity anti-RFP Single-Domain Antibody (sdAb) Protocol

For research use only
Not for use in clinical diagnostic procedures
Version Mar 2024

Catcher Product Line

GFP-Catcher - ABIN5311508

GFP-Catcher - ABIN7272855 Magnetic Beads

RFP-Catcher - ABIN5311510

RFP-Catcher - ABIN7529450 Magnetic Beads

BFP-Catcher - ABIN5311512

GST-Catcher - ABIN5311506

MBP-Catcher - ABIN7272855

mNeonGreen-Catcher - ABIN7529451

Step-by-step Protocol

I. Cell Collection & Lysis

- 1. For mammalian cells, harvest 10⁶-10⁸ cells per sample.
- 2. Lyse cells according to established protocols in 0.2 to 1.5 mL volume. Buffer recommendations:

2% Triton X-100, 1% Tween-20, 1% NP-40, 1% CHAPS, 1% Deoxycholate, 0.1% SDS

4 M NaCl, 2 M KCl, 1 M MgCl2, 100 mM EDTA

4 M urea

10 mM DTT, 10 mM 2-Mercaptoethanol

RNAse A, DNAse I, Benzonase, protease inhibitors

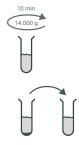
- 3. Centrifuge cell lysates in microcentrifuge tubes for 10 min at 14.000 x g at 4°C. Keep a small samples as "input" fraction.
- 4. Transfer the supernatant to a fresh microcentrifuge tube for each sample and keep at 4 $^{\circ}$ C.

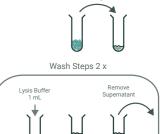


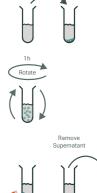
- 5. Homogenize the RFP-Catcher (agarose magnetic beads) slurry gently by shaking.
- 6. Transfer 20 µL bead slurry to a 1.5 mL microcentrifuge tube for each sample.
- 7. Add 1 mL Lysis Buffer to equilibrate RFP-Catcher (agarose magnetic beads).
- 8. Place the tubes on a magnet stand until the fluid is clear. Remove the supernatant carefully.
- 9. Repeat wash steps once for a total of two washes.

III. Bead Incubation with Supernatant

- 10. Resuspend equilibrated RFP-Catcher (agarose magnetic beads) gently with the cell lysate supernatant.
- 11. Rotate the microcentrifuge tubes for 1 h at 4 °C.
- 12. Place the tubes on a magnet stand until the fluid is clear. Keep a small aliquot of the supernatant as "unbound" fraction. Remove the supernatant carefully.
- 13. Resuspend RFP-Catcher (agarose magnetic beads) in 1 mL Lysis Buffer.
- 14. Place the tubes on a magnet stand until the fluid is clear. and and carefully remove the supernatant.
- 15. Repeat wash steps twice for a total of three washes.





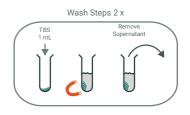




Step-by-step Protocol

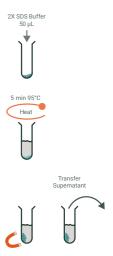
IV. Bead Washing and Solution Changes

- 16. Resuspend RFP-Catcher (agarose magnetic beads) gently in 1 mL TBS.
- 17. Place the tubes on a magnet stand until the fluid is clear and carefully remove the supernatant.
- 18. Repeat wash steps once for a total of two washes.



V. Elution Preparation

- 19. Resuspend RFP-Catcher (agarose magnetic beads) resin in 50 μ L 2X SDS sample buffer.
- 20. Heat sample (agarose magnetic beads) resin for 5 min to 95 °C.
- 21. Place the tubes on a magnet stand until the fluid is clear and transfer the supernatant to fresh microcentrifuge tubes. Keep the pellet (agarose magnetic beads) as backup.



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