NanoTag Biotechnologies

Reconstitution and Storage

Multiplexing Blockers

Multiplexing Blocker (MXB) reagents are highly purified protein mixtures containing a blend of single-domain antibodies (dAbs) that recognize immunoglobulin G (IgG) molecules from specific species, such as mouse (MXB-M) or rabbit (MXB-R). They can be used in multiplexing applications for an optional blocking step, recommended for protocols that require extended incubation or washing steps.

The protocol below refers to the following products:

Cat. No.	Product Name	Lyophilized from	Reconstitution	Final conc.
K0102-50	Multiplexing Blocker Mouse	PBS / BSA[1]	550 µL	n.a.
K0202-50	Multiplexing Blocker Rabbit	PBS / BSA[1]	550 µL	n.a.

[1] BSA US origin; n.a. = not applicable

Multiplexing Blocker reagents are shipped as lyophilized powder at ambient temperature. The lyophilized reagents can be stored at 2-8°C for up to 12 months.

Protocol: Reconstitution and Storage of Multiplexing Blockers

1. Prepare sterile 50% glycerol (v/v) in deionized water.
   If applicable, we recommend including 0.1% sodium azide as a preservative. Sodium azide should be avoided when using the reagents on live cells.
2. Open the vial containing the lyophilized Multiplexing Blocker reagent.
3. Add 550 µL of sterile 50% glycerol (v/v) in deionized water.
4. Mix gently and allow to sit at room temperature for ~5 min.
5. Optional: Briefly spin down the vial for 2 min at 100 x*g* using a 50 mL conical tube with tissue paper at the bottom.
6. Distribute into aliquots. Use small tubes and avoid aliquots below 20 µL.
7. Storage after reconstitution:
   - Working aliquots may be stored at -20°C for up to 4 weeks.
   - For long term storage (up to 6 months), samples should be kept at -80°C.

Notes:
- Avoid repeated freeze-thaw cycles.

Only for research applications, not for diagnostic or therapeutic use!

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