1. Technical Data Sheet

Summary	Slingshot Labs single biomarker controls are lyophilized cell mimics that feature single biomarkers with scatter coordinates (FSC and SSC) that closely match lymphocyte populations.
Application	Slingshot Labs single biomarker controls are intended to provide positive signal detection for specified surface biomarkers that are targeted by specific antibodies. These cell mimics are an ideal process control for assays that have measured readouts using flow cytometry. **For Research Use Only. Not for use in diagnostic or therapeutic procedures.**
Materials	This product is lyophilized for stability and ease of use. Each vial contains approximately $2.5x10^5$ cell mimics.
Handling and Safety	No special handling or safety precautions are necessary. See Safety Data Sheet (SDS) at www.slingshotbio.com.
Storage	Store lyophilized products at -20°C upon receipt. Use immediately upon reconstitution.
Expiration	One year from the date of manufacturing.
Instructions for Use	1. Tap down the vial to ensure that all cell mimics are collected at the bottom of the vial. 2. Add 1000 µL of flow staining buffer (0.2% BSA, PBS, 0.09% sodium azide) to the vial and transfer the contents to a FACS tube. 3. Centrifuge at 500 x g for 5 minutes and remove the supernatant, being careful to not disturb the pellet. 4. Add 1000 µL of flow staining buffer to the same vial and transfer residual contents to the same FACS tube. Centrifuge at 500 x g for 5 minutes and remove the supernatant, being careful to not disturb the pellet. 5. Add 100 µL of flow staining buffer to the pellet. 6. Add the appropriate amount of the staining antibody to the FACS tube (it is recommended to dilute the antibody amount into a total of 100 µL with flow staining buffer, and adding the 100 µL to the FACS tube). 7. Vortex for 3 seconds. 8. Incubate at room temperature in the dark for 15-20 minutes.

	9. Wash by adding 1 mL of flow staining buffer. Mix well by vortexing, then centrifuge at 500 x g for 5 minutes. 10. Remove the supernatant being careful to not disturb the pellet. 11. Repeat the previous wash step once more. 12. Add 100 µL of flow staining buffer to the pellet. 13. Resuspend with pipette mixing (pipette the solution up and down 5 times to allow for resuspension of the pellet). 14. Acquire on the flow cytometer using the same FSC and SSC settings as your biological samples. It is recommended to collect a minimum of 10,000 events.
Technical Support	For technical support regarding this product please contact: support@slingshotbio.com