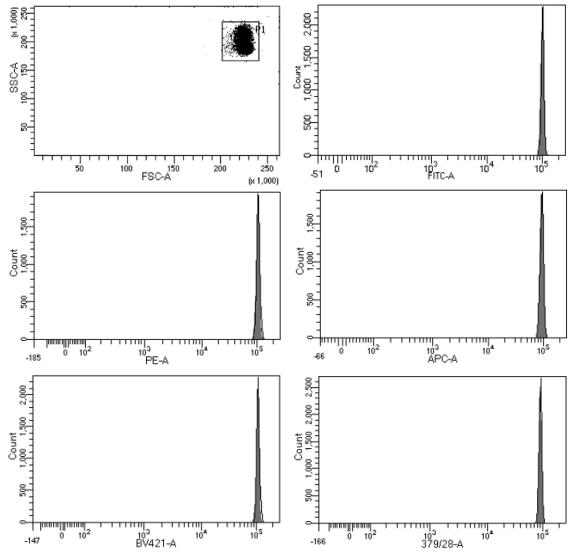
SPHERO™ AccuCount Particles

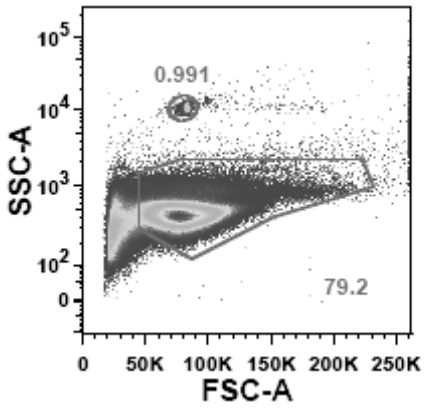
- Contains particles with a known number of particles per mL
- Easy to use and cost effective
- Available in several sizes to accommodate the target cell size to be counted
- Provided as blank, fluorescent, Rainbow, or Ultra Rainbow particles that can be used in multiple fluorescent channels of flow cytometers.

The SPHERO™ AccuCount Particles are designed to be used as reference particles with known number of particles per mL for counting the absolute cell number by flow cytometry. The SPHERO™ AccuCount Particles are very easy to use and are cost effective. The AccuCount Fluorescent Particles are fluorescent in FITC, PE and PE-Cy5 channel. Both AccuCount Fluorescent and AccuCount Blank (nonfluorescent) Particles are available in various particle sizes to accommodate the size of the cells to be counted. In addition, Spherotech also manufactures the AccuCount Rainbow Fluorescent Particles and AccuCount Ultra Rainbow Fluorescent Particles for detection in more fluorescent channels.

Particle Type and Surface	Size, µm	Catalog No.	Unit
AccuCount Blank, 10^6/mL	2.0-2.4	ACBP-20-10	10 mL
AccuCount Blank, 10^6/mL	3.0-3.9	ACBP-30-10	10 mL
AccuCount Blank, 10^6/mL	5.0-5.9	ACBP-50-10	10 mL
AccuCount Blank, 10^6/mL	7.0-7.9	ACBP-70-10	10 mL
AccuCount Blank, 10^6/mL	8.0-12.9	ACBP-100-10	10 mL
AccuCount Blank, 10^6/mL	13.0-17.9	ACBP-150-10	10 mL
AccuCount Fluorescent, 10^6/mL	5.0-5.9	ACFP-50-5	5 mL
AccuCount Fluorescent, 10^6/mL	7.0-7.9	ACFP-70-5	5 mL
AccuCount Fluorescent, 10^6/mL	7.0-7.9	ACFP-70-10	10 mL
AccuCount Fluorescent, 10^6/mL	8.0-12.9	ACFP-100-3	3 mL
AccuCount Rainbow Fluorescent, Low Intensity, 10^6/mL	8.0-12.9	ACRFL-100-3	3 mL
AccuCount Rainbow Fluorescent, 10^6/mL	8.0-12.9	ACRFP-100-3	3 mL
AccuCount Ultra Rainbow Fluorescent, 10^6/mL	5.0-5.9	ACURFP-50-10	10 mL
AccuCount Fluorescent Particle Kit. Contains 4 bottles: 0.5x10^6mL, 1.0x10^6/mL, 0.5x10^7mL, & 1.0x10^7/mL	5.0-5.9	ACFP-50-4K	4x1 mL



Dot plot and histogram of the ACRFP-100-2



Dot plot of an elutriated lymphocyte fraction spiked with ACBP-100-10

To see more information on Spherotech Absolute Counting beads for flow cytometry go to:
www.Spherotech.com/tech.htm

Selected References:

- *Yu X, Xu J, Huang G, et al. Bubble-Induced Endothelial Microparticles Promote Endothelial Dysfunction. PLoS One. 2017;12(1):e0168881. Published 2017 Jan 23. doi:10.1371/journal.pone.0168881*
- *Diebold, L., Hyea, G., Peng, G, et al. Mitochondrial complex III is necessary for endothelial cell proliferation during angiogenesis. Nature Metabolism.1,158–171. Published 2019 Jan 07. doi.org/10.1038/s42255-018-0011-x*
- *Baal, N., Cunningham, S., Obermann, H., et al. ADAR1 Is Required for Dendritic Cell Subset Homeostasis and Alveolar Macrophage Function. Journal of Immunology January 16, 2019, ji1800269; DOI: 10.4049/jimmunol.1800269*