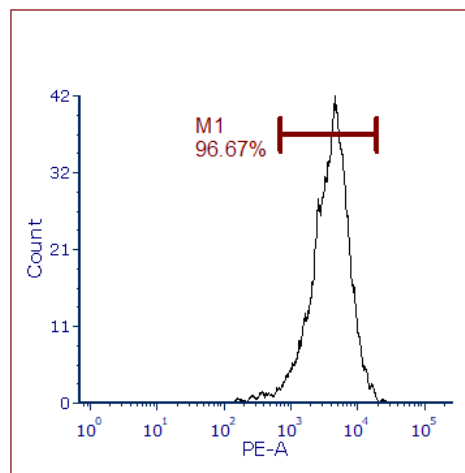


MagDot 580 Streptavidin

Product Information	
Volume	0.25 mL
Functional Group	Streptavidin
Excitation/Emission	405 / 580
Dilution*	25 μ L/million cells
Zeta potential	+3 mV
Theoretical Streptavidin Concentration	\sim 1 μ g/ μ L
Iron oxide Concentration	1 mg/mL
Conjugate	580 MagDot
Form	Liquid
Purification	Purified
Storage Buffer	Borate, pH 7.4
Storage Conditions	4°C do not freeze
Tested Application	Flow Cytometry and Magnetic Separation



Cytocomp cells labeled with Biotin CD45 as primary and MagDot streptavidin as secondary, analyzed in a Fortessa

*Suggested working dilution is given as a guide only.

It is recommended the user pipette to mix the product before use and titrate the product for use in their own experiment using appropriate negative and positive controls.

*Time for separation for the labelled cells will depend on the magnetic field strength, gradient used and no of particle bound per cell

Product Description

MagDot is a dual-purpose reagent, it combines quantum dots and superparamagnetic iron oxide particles within the same nanoparticle. Cells labeled with MagDots targeting specific antigens will be both fluorescent and magnetic. Therefore, after labeling cells of interest, one can look at the feed to determine the percent positive fluorescently via flow cytometry, and then place the labeled cells in a magnetic separator and analyze both the magnetic (for the enrichment) and the nonmagnetic (for the depletion) of targeted cells without the need for further fluorescent labeling.