Representative flow cytometry scatter plot of the different concentrations of ox-LDL (0, 25, 50, 100, 150, 200, 300 mg/L) for 24h in J774A.1 cells. The levels of MIP-1α, RANTES, IL-10 in the medium were detected via AimPlex technology. For each concentration, the upper left panel: A dot plot with FSC-H (forward scatter-high, X-axis) and SSC-H (side scatter-high, Y-axis) in linear display mode. The fluorescence intensity of PE (Phycoerythrin) on the horizontal axis and the APC (Allophycocyanin) fluorescence intensity on the vertical. Create Gate 1 (R1) for the smaller (4 micron size, S4) beads and Gate 2 (R2) for the larger (5 micron size, S5) beads. The upper right panel: All bead populations are clearly separated on the histograms and dot plots through adjusting APC. Each bead population conjugated with a specific capture antibody to trap the protein of interest. The different bead population represents different cytokines. The amount of the analyte captured is detected via a biotinylated antibody against a secondary epitope of the protein, followed by a streptavidin-R-phycerythrin (streptavidin-PE) treatment. The fluorescent intensity of PE on the beads is quantified on a flow cytometer. Apply proper "APC" - % PE color compensation: Red represents gate 1 (4 micron size beads) and green gate 2 (5 micron size beads) (lower left panel-lower right panel). Size 4 micron, Peak #6 (S4P6) is IL-10, Size 4 micron, Peak #9 (S4P9) is anti-mouse MIP-1α and Size 5 micron, Peak #7 (S5P7) is RANTES.