

Cell Surface Immunostaining

Analysis of cell surface antigens with MAXPAR®-labelled antibodies

Materials Required



CHEMICAL HAZARD. Before handling any chemicals, refer to the Material Safety Data Sheet (MSDS) provided by the manufacturer, and observe all relevant precautions.

- MAXPAR® conjugated antibodies
- Iridium metallointercalator (catalogue – Inter-1X-natl, or Inter-5X-natl ; DVS Sciences Inc)
- 1.6% formaldehyde / PBS solution
- PBS, pH 7.2 (without Ca²⁺ or Mg²⁺)
- 1% BSA in PBS (without Ca²⁺ or Mg²⁺)

Protocol

1. After collecting cells to be analyzed, centrifuge at 450g for 10 minutes.
2. Resuspend cell pellet in PBS, and count with the aid of a hemocytometer (approximately 1x10⁶ cells are required per immunostaining analysis).
3. Prepare antibody cocktail in 1% BSA/PBS in one tube – the optimal final concentration of each antibody should be determined by titration experiments, and can range from 0.5 - 10µg/mL.
4. To each tube of 1x10⁶ cells, distribute 50µL of antibody mix and incubate for 30 minutes at room temperature.
5. Following the incubation, add 2mL PBS to each tube, centrifuge at 450g for 10 minutes, then discard supernatant.
6. Add 500µL of 1.6% formaldehyde/PBS to cell pellet, then gently vortex to resuspend cells. Incubate for 1 hour at room temperature.
7. Centrifuge at 450g for 10 minutes, then proceed with “Ir Intercalator Protocol” (available in the Technical Support section at www.DVSSciences.com).

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