

Cell-ID Intercalator-Ir

Catalog number, concentration: 201192A, 125 μ M
 201192B, 500 μ M

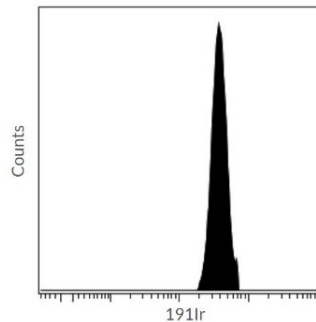
Package size: 500 μ L

Storage: Upon receiving this product, aliquot and freeze at -20 °C. Frozen aliquots should be used only once after thawing.

Application: Cell identification on CyTOF[®] suspension mass cytometry systems

Technical Information

Description: Cell-ID[™] Intercalator-Ir is a cationic nucleic acid intercalator that contains natural abundance iridium (¹⁹¹Ir and ¹⁹³Ir) and is used to identify nucleated cells in CyTOF system analysis. When cells are stained with Intercalator-Ir, it binds to cellular nucleic acid, and detection of both stable isotopes enables identification of nucleated cells. It is a live-cell membrane-impermeable dye and therefore requires cells to be fixed and/or permeabilized before staining.



Human PBMC were stained with Cell-ID Intercalator-Ir. Cells shown are gated on total viable cells.

Important Product Notes

- Cell-ID Intercalator-Ir is a highly concentrated metal intercalator solution. It must be diluted in accordance with the applicable protocols to avoid early failure of the detector.
- Upon receiving this product, divide into single-use aliquots and freeze them at -20 °C. Frozen aliquots of Cell-ID Intercalator-Ir should be used only once immediately after thawing to room temperature. Avoid multiple freeze/thaw cycles as this may alter the chemical and cell-binding properties of the reagent.
- We recommend that you determine the optimal staining concentration for Cell-ID Intercalator-Ir by titrating the reagent for individual cell types and experiments. We suggest that the intercalator concentration in the staining solution not exceed 1 μ M and optimal signal intensity is between 300 and 1,000 dual counts in the 191Ir channel.
- To minimize signal overlap due to the mass channel proximity, we recommend titrating Cell-ID Intercalator-Ir prior to use with platinum (¹⁹⁴Pt)-labeled antibodies or Cell-ID Cisplatin-194Pt as a viability reagent.
- Detect the Cell-ID Intercalator-Ir metal isotope in the 191Ir or 193Ir mass channel of the CyTOF suspension mass cytometry system you will use for sample acquisition. Add the Cell-ID Intercalator-Ir metal isotopes to your acquisition template (.tem) prior to acquisition of samples. Refer to your CyTOF system user guide for information on how to add elements to the acquisition template and run samples using CyTOF Software.

Applicable Protocols

Before using this product, refer to any of the following documents for more information:

- Maxpar[®] Cell Surface Staining with Fresh Fix Protocol (400276)
- Maxpar Cytoplasmic/Secreted Antigen Staining with Fresh Fix Protocol (400279)
- Maxpar Nuclear Antigen Staining with Fresh Fix Protocol (400277)
- Maxpar Phosphoprotein Staining with Fresh Fix Protocol (400278)
- Maxpar Direct Immune Profiling Assay Cell Staining and Data Acquisition User Guide (400286)
- Cell-ID 20-Plex Pd Barcoding Kit User Guide (PRD023)

Safety

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to fluidigm.com/sds and search for the SDS using either the product name or the part number.

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