New Staining Protocols

A new protocol for staining on Helios, CyTOF 2-to-Helios Upgrade, CyTOF and CyTOF 2

Introduction

A change to the staining protocols for routine use in all mass cytometry instruments has been developed in order to improve cell stability and staining quality. These protocols enable higher intensities and tighter CVs for signals from metal-labeled cells, improving data quality and maximizing results from precious samples. Internal testing and FAS and customer experience support improved cell stability when cells are treated with fresh fixative after antibody staining.

Staining Protocol Updates

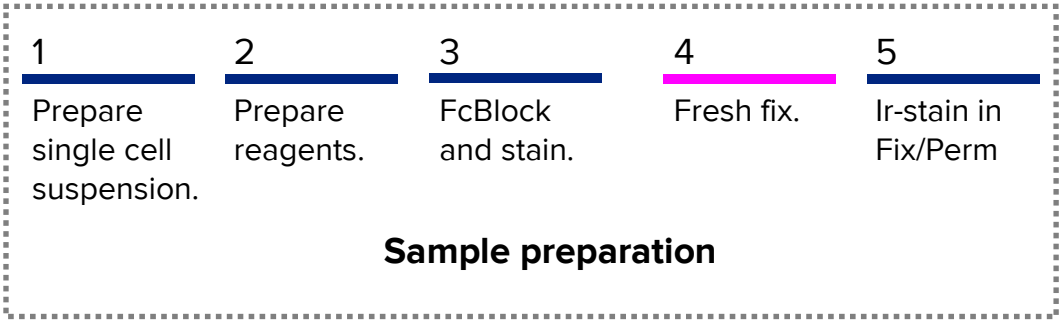
Updates to the staining protocols on Helios™, Helios Upgrade, CyTOF® and CyTOF 2 consist of the following:

- Addition of a fixation step using fresh fixative (1.6% FA) to sample preparation protocols prior to iridium staining in Fix/Perm, for all instruments.
- Fixative should be opened and prepared the same day it is used.

We recommended Pierce™ 16% Formaldehyde, ampule-sealed, methanol-free in 1 mL aliquots.

Sample Fixation Prior to Iridium Staining

The addition of fresh 1.6% formaldehyde fix prior to staining with iridium staining in Fix/Perm buffer enhances the quality of your data with improved cell integrity prior to data acquisition on Helios. See the Maxpar® Cell Surface Staining Protocol with Fresh Fix (PN 400276)



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