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Version 1

## Post MALDI IMS CODEX Staining and Imaging Fresh Frozen Tissue V.1

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PhenoCycler-Fusion User Guide (Version 2.1.0) 2023 by Akoya Biosciences, Inc.

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**We use this protocol and it's working**

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## Abstract

PhenoCycler User Guide for multiplex spatial proteomic detection on post IMS Fresh Frozen tissue sections

## Troubleshooting

## Pre-Experiment Preparation

- 1  PhenoCycler-Fusion User Guide\_2....  
Prepare reagent and solutions as listed in the *PhenoCycler-Fusion User Guide* (Version 2.1.0) from page 34 to 36

## Post IMS- CODEX FF Tissue Staining

- 2 Remove IMS matrix by gradually spraying acetone on the tissue slide, until all the matrix is washed out.
- 3 Submerge the slide in acetone in 2 minutes for 5 times.
- 4 Remove sample from acetone, let it sit in the staining box 2 minutes.
- 5  PhenoCycler-Fusion User Guide\_2....  
Continue the procedure from Step 5 (page 38-44) of the *PhenoCycler-Fusion User Guide* (Version 2.1.0).

## CODEX FF Tissue Imaging

- 6  PhenoCycler-Fusion User Guide\_2....  
Apply the flowcell onto tissue slide (page 29-39)  
Instrument set-up for PhenoCycler scan (page 57-71)