

IMC Cell Segmentation Kit

Information Sheet

Order Information: TIS-00001

Package contents: Each box contains 3 vials. The reagents are provided in individual tubes, not a pre-mixed cocktail. See tables for individual kit contents. The 3 metal-labeled antibodies are designed to be used in combination with the recommended analysis pipeline.

Reactivity: FFPE Human/Mouse

Formulation: Antibody stabilizer with 0.05% sodium azide

Storage: Store at 2–8 °C. Do not freeze.

Volume: 20 µL

Application: Imaging Mass Cytometry™

Description

The IMC™ Cell Segmentation Kit is an Innovative Solution* that facilitates an end-to-end workflow for single-cell data analytics. The kit contains three individual plasma membrane markers conjugated to 195Pt, 196Pt, and 198Pt. These markers can be added to existing panels for improved nucleus and plasma membrane demarcation, enabling cell segmentation across multiple tissue types without taking channels away from your current panel.

Kit Contents

IMC™ Cell Segmentation Kit	Metal Tag
ICSK1	195Pt
ICSK2	196Pt
ICSK3	198Pt

Applicable Protocols

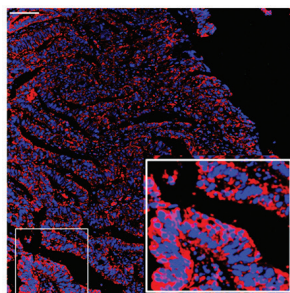
Before using this product, refer to the instructions in the Imaging Mass Cytometry Staining Protocol for FFPE Sections (PN 400322). The recommended dilution is 1:100. We recommend titrating the antibodies for optimal performance for each of the desired tissue applications. Note that it is important to centrifuge the antibody at 13,000 x g for 2 min and pipet from the top of the tube to avoid antibody aggregates.

Safety

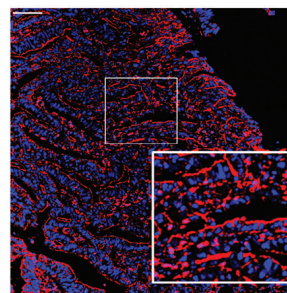
Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to: fluidigm.com/sds and search for the SDS.

Images

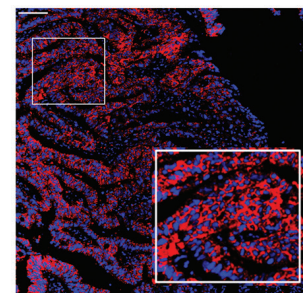
Human FFPE colon adenocarcinoma stained with IMC Cell Segmentation Kit. Regions of interest are 1,000 µm x 1,000 µm. Scale bar is 100 µm.



ICSK1-195Pt (red) DNA (blue)



ICSK2-196Pt (red) DNA (blue)



ICSK3-198Pt (red) DNA (blue)

*Innovative Solutions are a menu of custom-made reagents and workflows developed and tested by Fluidigm scientists to give faster access to new cutting-edge solutions for high-multiplex single-cell analysis. Innovative Solutions are not part of the Maxpar® catalog.

For a quote contact your local sales rep or visit fluidigm.com/innovate.

For technical questions contact your Field Applications Specialist or email tis@fluidigm.com.

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