



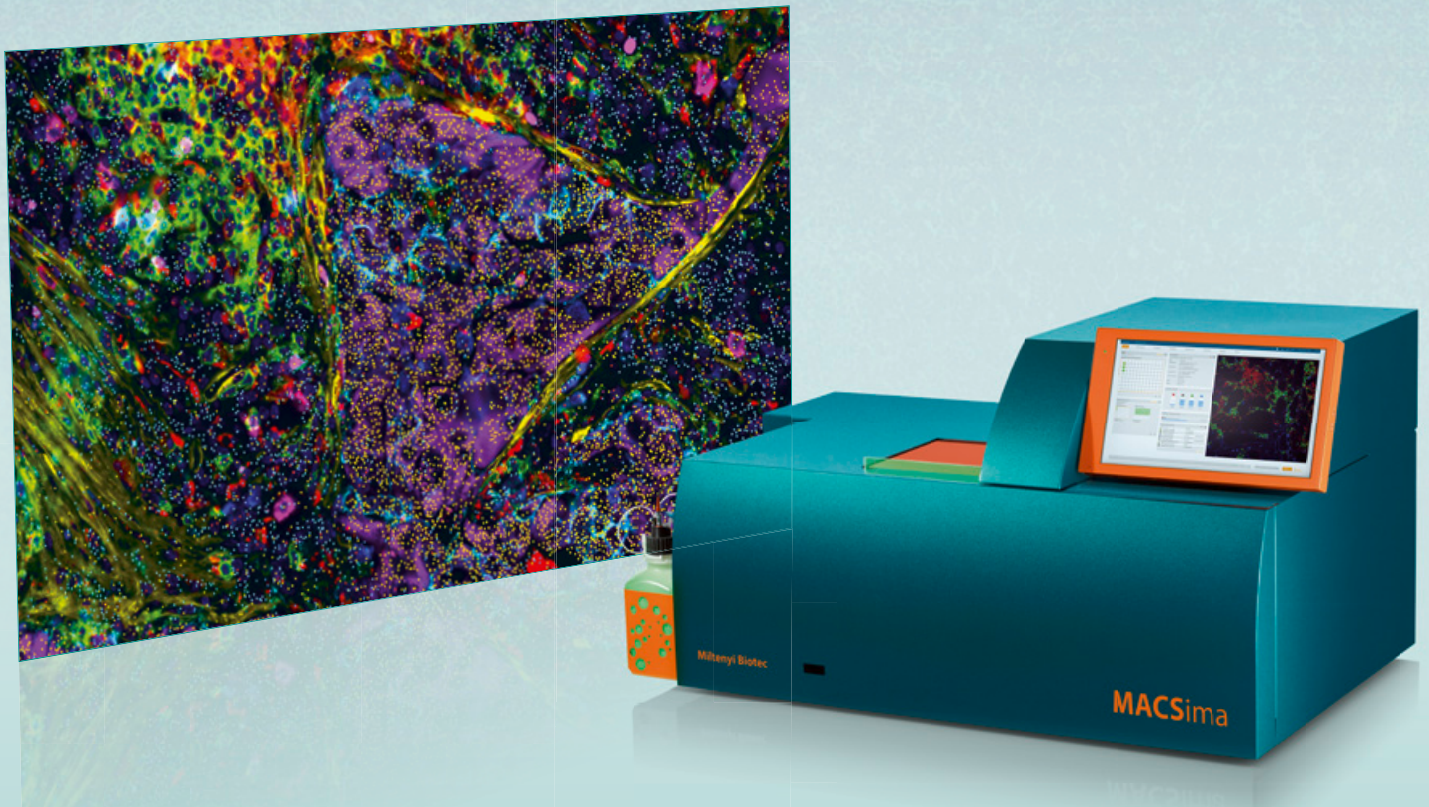
Miltenyi Biotec

Same-section spatial multiomics

Automated RNA and protein detection – Deeper insights with RNAsky™ Detection Probes on the MACSima™ Platform

- One sample, deeper insights – complement spatial proteomics with RNA analysis.
- One technology for the detection of hundreds of proteins and dozens of RNAs.
- One seamless workflow – from sample preparation to multiomics analysis software.

► miltenyibiotec.com



Automated RNA and protein detection on the same section

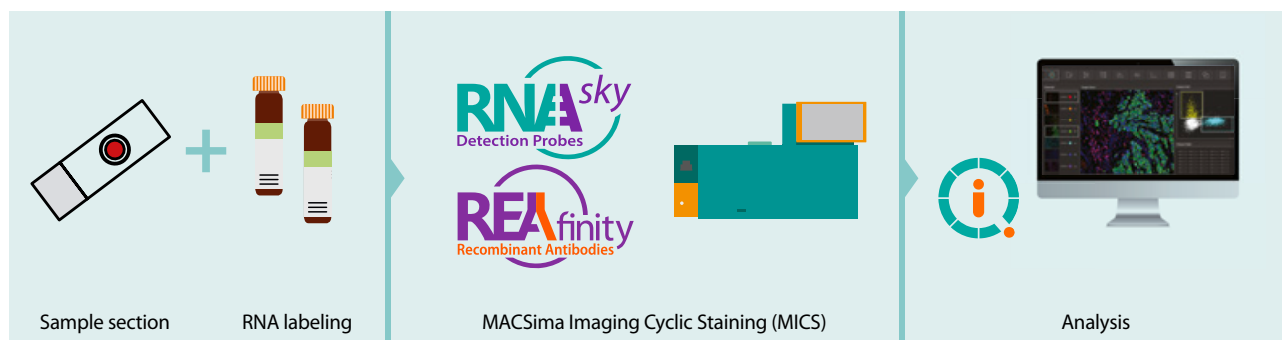


Figure 1: Multiomics workflow using the MACSima Imaging Cyclic Staining (MICS) technology. MICS technology employs cycles of staining, imaging, and signal erasure to analyze hundreds of proteins without harming the sample. The integration of RNAsky Detection Probes seamlessly expands this capability to include spatial RNA probe labeling, detection, and analysis within the same sample, platform, and workflow.

RNAsky Detection Probes: Robust and high-performance RNA detection

Target essentially any gene of interest with our proprietary RNAsky Technology and ensure reproducible results with our robust and automated MACSima Platform. The RNAsky Workflow features a protease-free protocol, enabling consecutive protein detection on the same section while preserving epitope integrity and tissue morphology.

The RNAsky Technology complements the MACSima Platform's spatial biology workflow, ideal for various applications such as:

- Cross-validation of upstream screening methods
- Detecting secreted factors like chemokines or cytokines
- Protein-RNA co-expression analysis
- Replacing unavailable or poorly performing antibodies

MACS[®] iQ View: Spatial Biology – Unleash the full potential of your multiomics data with intuitive analysis software

Analyze even the most complex multiomics datasets with ease, generate clear results fast, and publish with confidence.

MACSima Platform: Accelerate your multiomics research

Get everything you need for seamless and rapid assay development from one source:

- Pretested antibodies: 600+ off-the-shelf antibodies and plug-and-play antibody panels.
- RNAsky Reagents: Easy sample preparation workflow with predefined and custom probe panels.
- MACSima System: Walk-away solution for automated spatial biology experiments.
- MACS iQ View Software: Visualization and analysis of multiomics data in record time.

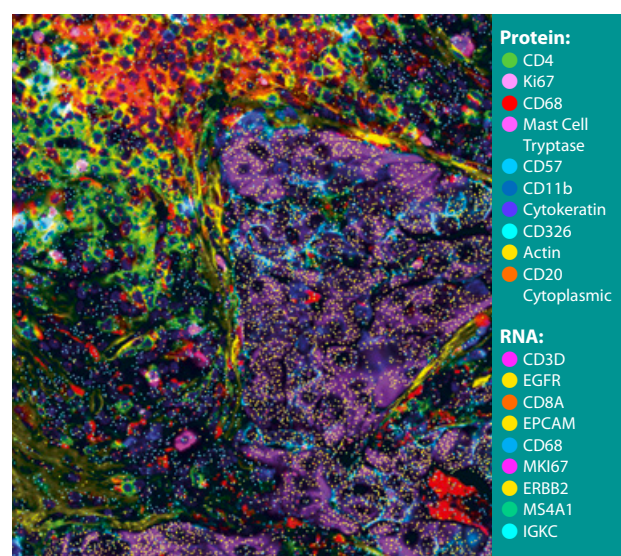


Figure 2: Simultaneous detection and analysis of 40 protein markers and 27 RNAs in non-small cell lung cancer (NSCLC) FFPE tissue.



Miltenyi Biotec B.V. & Co. KG | Friedrich-Ebert-Straße 68 | 51429 Bergisch Gladbach | Germany | Phone +49 2204 8306-0 | Fax +49 2204 85197
 macsde@miltenyi.com | www.miltenyibiotec.com

Miltenyi Biotec provides products and services worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

Unless otherwise specifically indicated, Miltenyi Biotec products and services are for research use only and not for therapeutic or diagnostic use. MACS, MACSima, the Miltenyi Biotec logo, and RNAsky are registered trademarks or trademarks of Miltenyi Biotec B.V. & Co. KG and/or its affiliates in various countries worldwide. Copyright © 2024 Miltenyi Biotec and/or its affiliates. All rights reserved.