
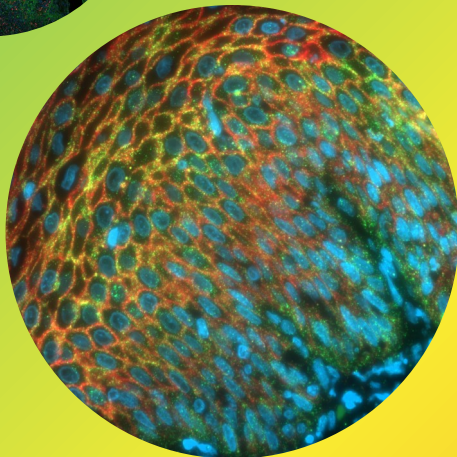
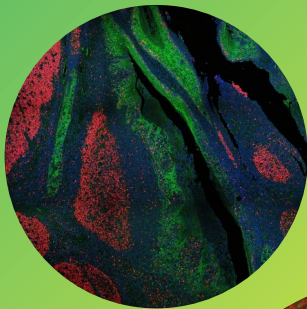
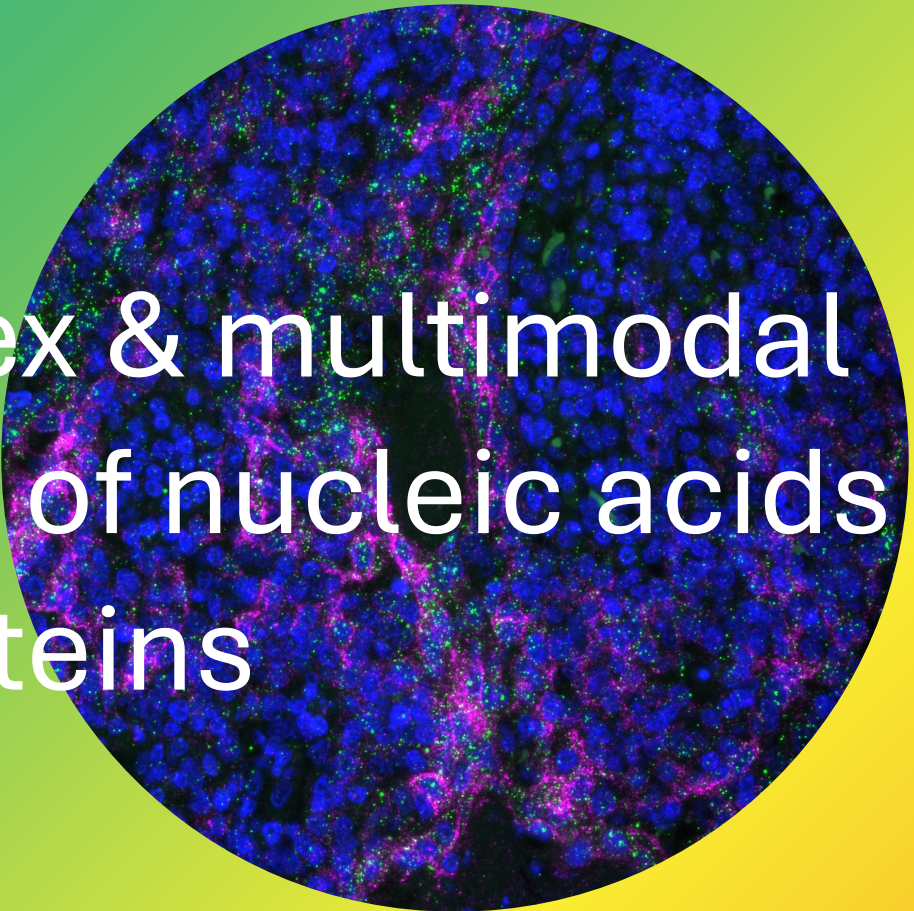


arcoris bio



multiplex & multimodal
imaging of nucleic acids
and proteins



- real simultaneous multiplex
- high signal amplification, low noise
- easy to use, same day results
- no specialized equipment required
- fluorescence, chromogenic & more

Introducing MUSE®

Multiplex Universal Signal Enhancement

- Enzyme-free, revolutionary self-assembling DNA nanotechnology
- Requires minimal antibody modification — preserves binding **specificity**
- Delivers true **multiplex** signal amplification
- Fully **universal** and **multimodal**

MUSE® enables advanced imaging by combining with a range of detection tools — from fluorophores and HRP enzymes to metal isotopes. It pairs easily with primary antibodies, Fab fragments, and DNA probes for unmatched flexibility.

Perfect for biomarker research, **MUSE®** allows seamless integration of multiple techniques like FISH and IF, supporting up to **7-plex multiplexing** in a single experiment.

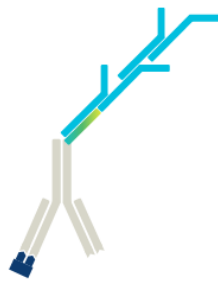
Fast & Simple Protocol

- Just **2 steps** at room temperature
- No special equipment required
- **Results in a single day**

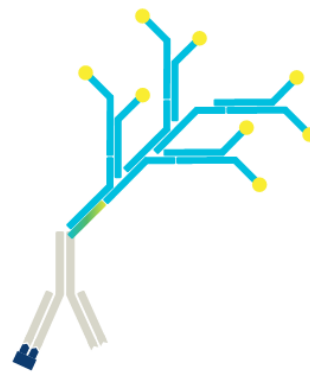
IF



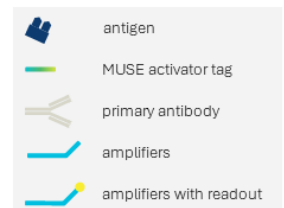
Antigen detection with primary antibody linked to MUSE activator tag.



MUSE amplifiers are added and self-assemble on the target. In step 1 the amplifiers without readout create the “trunk” of the structure.



In step 2 the amplifiers with readout create the labelled “branches” of the structure.



RNA FISH



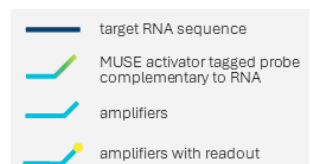
Detection with MUSE activator tagged probe complementary to target RNA.

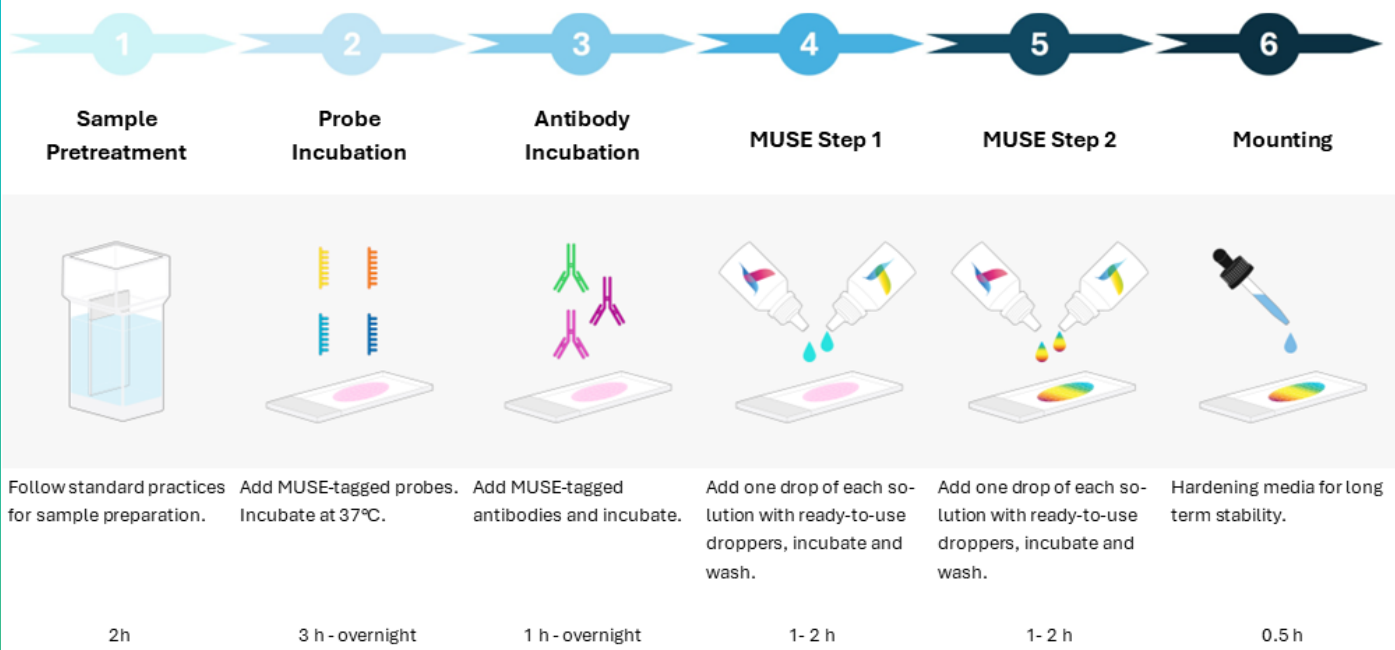


MUSE amplifiers are added and self-assemble on the target. In step 1 the amplifiers without readout create the “trunk” of the structure.



In step 2 the amplifiers with readout create the labelled “branches” of the structure.





Products

Our kits immunoMUSE™, rnaMUSE™, as well as our customized solutions are based on the same technology: a self-assembling polymerization.

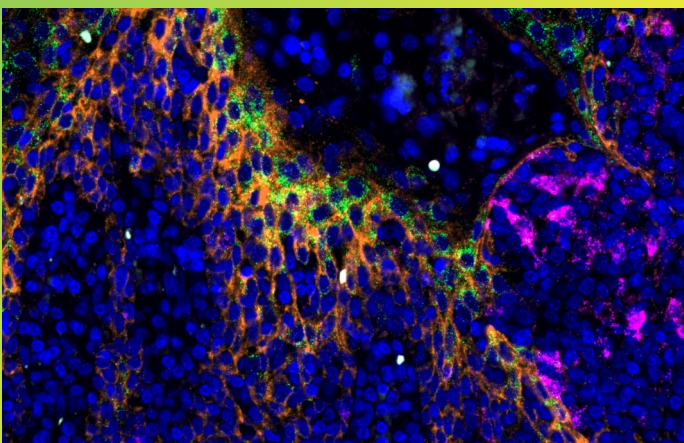
Depending on your needs, the polymers are labeled with fluorophores, enzymes like horseradish peroxidase (HRP) or metal isotopes of your choice.

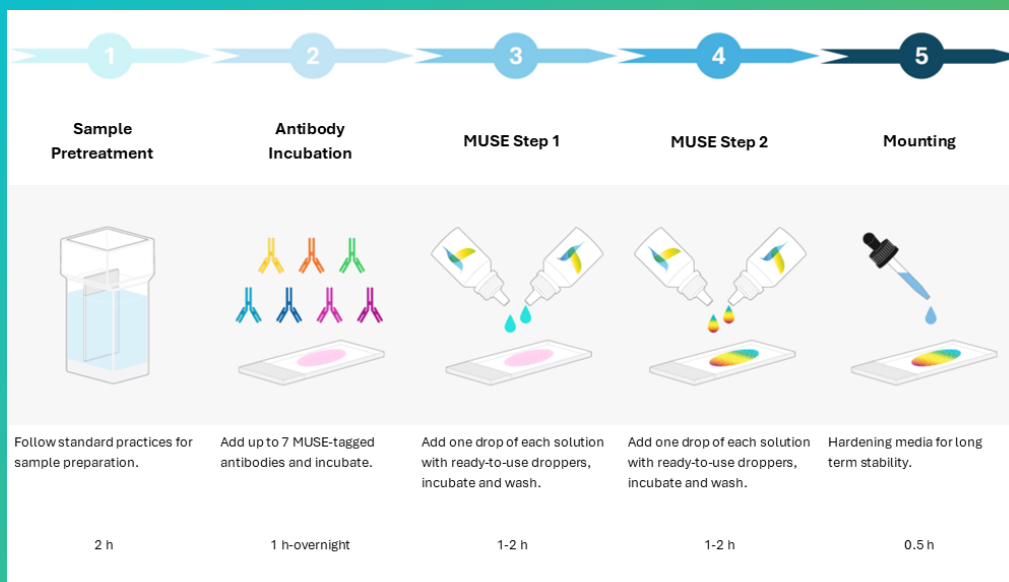
Available for adherent cells, Formalin-Fixed Paraffin-Embedded (FFPE) samples and more.

The flexibility and ease of use allows to break new frontiers in the multiomics space.

No need to change the primary antibody used, no need to buy a new expensive device.

Just higher sensitivity and the possibility to combine different multiplex techniques!





immunoMUSE™ kits

- 2-plex (488nm, 647nm)
- 4-plex (488nm, 550nm, 594nm, 647nm)



More options (up to 7-plex) available as custom solutions



immunoMUSE™

Whether you're performing immunofluorescence (IF), immunohistochemistry (IHC), or imaging mass cytometry (IMC), immunoMUSE™ is designed to help you overcome common challenges in antibody-based detection.

Why Choose immunoMUSE™?

Superior Sensitivity

- 10× higher signal than conventional fluorescent secondaries

This allows you to confidently detect low-abundance biomarkers that standard methods may miss.

Uncompromised Specificity

Using self-assembling DNA nanotechnology, immunoMUSE™ maintains the full specificity of your trusted antibodies — no cross-reactivity, no background issues.

Real, Scalable Multiplexing

immunoMUSE™ is independent of antibody isotype. This allows you to detect multiple targets simultaneously, without being limited by primary/secondary compatibility — a true advantage for multiplex assays.

Streamlined Workflow, Same-Day Results

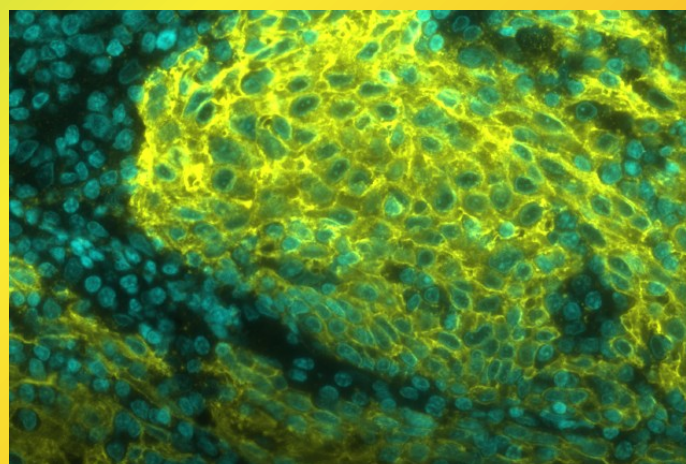
The immunoMUSE™ protocol is simple and efficient:

- Only 2 steps at room temperature
- No extra specialized equipment
- Ready-to-use droppers
- Results in just one day

A Better Way to Detect

Why still rely on secondary antibodies when a more efficient, flexible, and sensitive alternative is available?

With immunoMUSE™, you unlock the next generation of signal amplification — built for today's multiplexed, high sensitivity imaging needs.



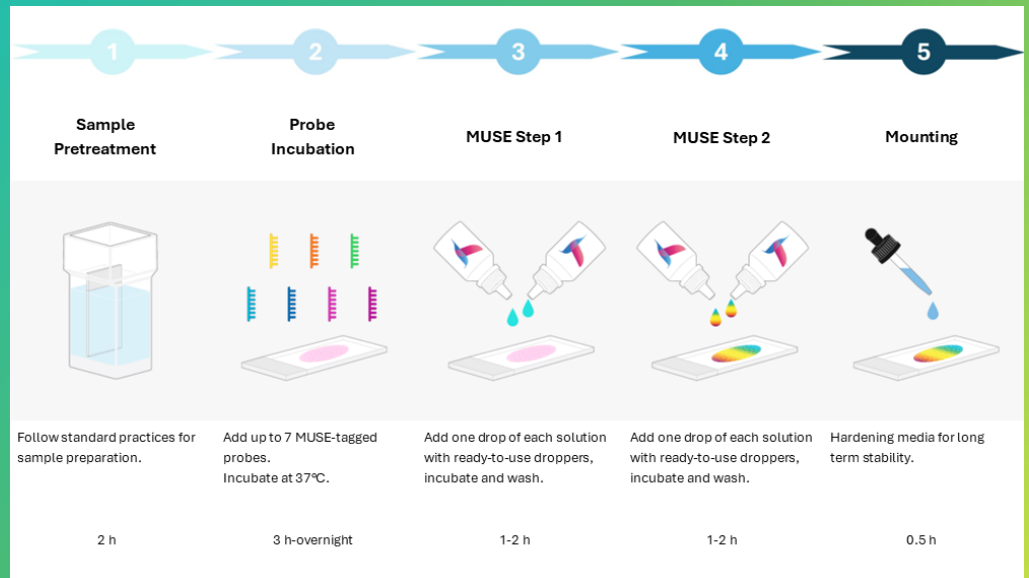
2-plex on a FFPE human tonsil tissue

rnaMUSE™ kits

- 2-plex (488nm, 647nm)
- 4-plex (488nm, 550nm, 594nm, 647nm)



More options (up to 7-plex) available as custom solutions



rnaMUSE™

As demand grows for deeper spatial transcriptomic insights, rnaMUSE™ offers a powerful, user-friendly solution for multiplex RNA imaging. This innovative platform allows you to detect and visualize up to seven distinct RNA targets simultaneously, using custom fluorophores in formalin-fixed paraffin-embedded (FFPE) tissues and adherent cells.

rnaMUSE™ enables high-resolution multicolor imaging that reveals intricate transcriptional patterns — providing the spatial and molecular context essential for modern biological and biomedical research.

Streamlined Workflow, Powerful Results
With same-day turnaround and an intuitive

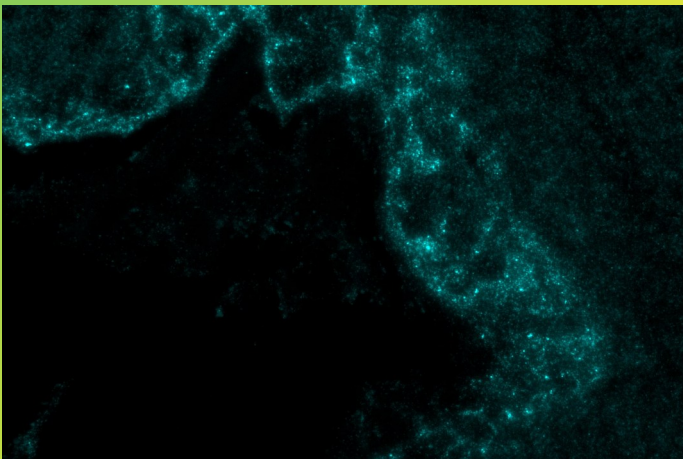
protocol, rnaMUSE™ reduces hands-on time while increasing data quality, making it an ideal solution for both high-throughput labs and focused academic research.

rnaMUSE™ ensures high specificity with minimal background, enabling researchers to confidently detect even low-abundance transcripts.

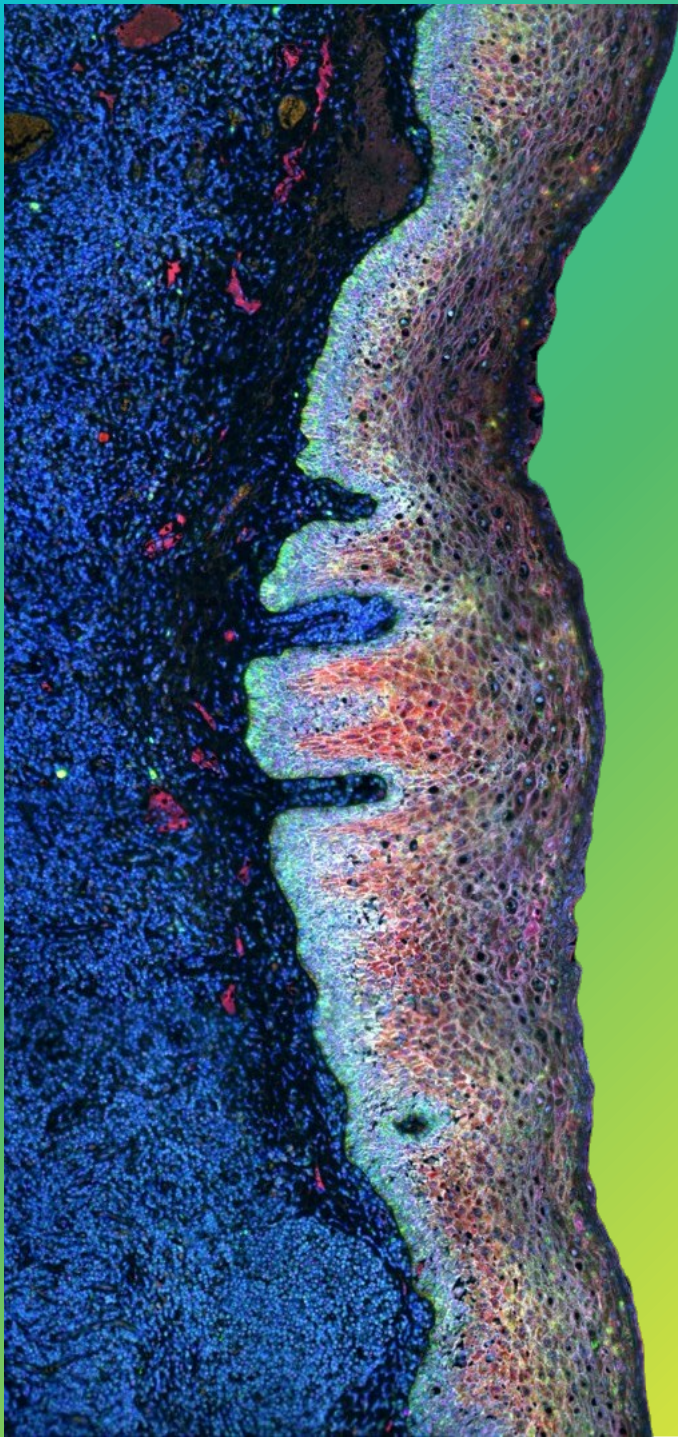
Flexibility Without Compromise

rnaMUSE™ works with fluorophores of your choice, allowing fully customizable signal detection. Its universal compatibility means it can be easily integrated into immunofluorescence (IF) or protein co-detection workflows — offering a multimodal approach to spatial biology.

Whether you're investigating disease pathways, validating biomarkers, or mapping gene expression at the cellular level, rnaMUSE™ provides the versatility you need without compromising sensitivity or specificity.



Her2 mRNA on a FFPE human tonsil tissue



immunoMUSE™ and rnaMUSE™ in one

Uncover both transcriptional and translational landscapes in a single sample, with one workflow.

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One solution. Double Insight.

We can bring together the power of both immunoMUSE™ and rnaMUSE™ into a unified platform for simultaneous RNA and protein detection — enabling true spatial multiomics.

Optimized for FFPE tissues and adherent cells, this dual-detection system allows you to visualize RNA transcripts and protein markers in parallel, without compromising sensitivity or specificity. Get high-resolution, spatially-resolved images that illuminate cellular complexity like never before.

True Multiomics Compatibility

- Detect RNA and proteins within the same tissue section or cell population
- Maintain spatial context for precise interpretation at the cellular and tissue level

Flexible Multiplexing

- Visualize up to 7 RNA transcripts and proteins
- Compatible with multicolor imaging and custom marker panels
- Works across different antibody species and isotypes

Custom solutions

Not seeing a kit that fits your exact application? Have a unique target or workflow in mind?

We're here to help.

Reach out to us with your needs, and our team will work with you to develop the right solution using the flexible power of MUSE® technology.



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