From Eye to Insight

Leica MICROSYSTEMS

INTRODUCING

ATTOAuriga

SPATIAL BIOLOGY REAGENTS

Spatial biology researchers face increasing pressure to extract deeper biological insight from limited tissue. Traditional multiplex immunofluorescence workflows can be time-consuming and difficult to reproduce, often requiring trade-offs between plex level, signal quality, and experimental confidence.

Introducing ATTOAuriga, a modular spatial biology reagent ecosystem that enables researchers to build and adapt multiplex experiments using a defined set of reagents, from pre-validated antibody panels to conjugation kits for custom antibody barcoding, supporting confident cyclic imaging workflows. Each component has a distinct role:

ATTOApollo Panels
Pre-validated, ready-to-use antibody panels with Unique Antibody Identifiers (UAI) barcodes

ATTOConexa Kits
Conjugation kits for generating oligonucleotide barcoded antibodies

ATTOIrida Fluorescent Labels
Hybridization-based labels designed for cyclic imaging workflows

ATTOSilenta Blocking Buffer
Required buffer optimized for signal quality and reproducibility

BRIGHT SIGNALS. FLEXIBLE DESIGN. REPRODUCIBLE RESULTS.

A MODULAR APPROACH TO MULTIPLEX IMAGING

Building multiplex antibody panels can be time-consuming and costly, which can slow progress and increase experimental risk for spatial biology researchers. ATTOAuriga is a modular reagent family that supports repeated rounds of antibody labeling, imaging, and enzymatic signal removal. Each component plays a defined role in delivering reliable cyclic imaging performance while maintaining tissue integrity and signal quality.

Bright, clean signals

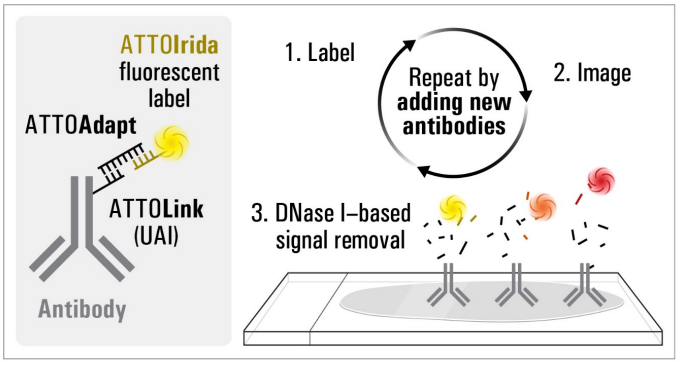
- Uses ATTOIrida fluorescent labels that hybridize specifically to Unique Antibody Identifiers (UAI) on antibodies
- Enzyme (DNase I) based signal removal clears fluorescence between cycles, minimizing signal carryover
- Designed from the ground-up for advanced high-plex immunofluorescence imaging

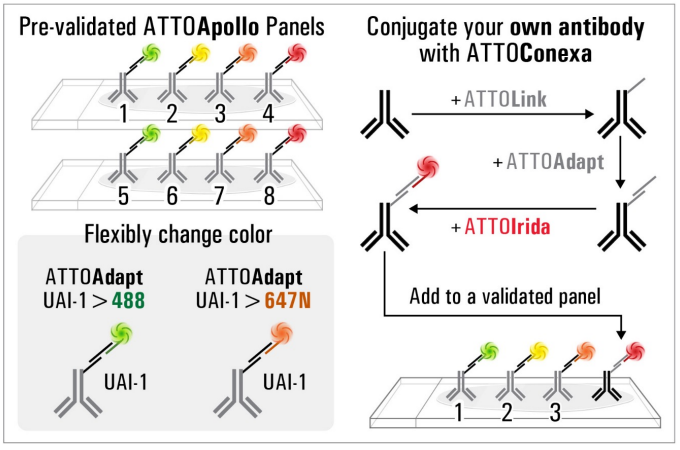
Built-in flexibility

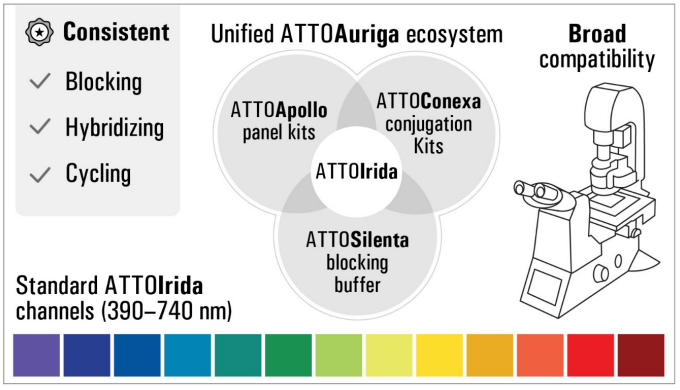
- Pre-validated ATTOApollo panels for ready-to-use workflows
- ATTOConexa kits enable users to barcode their own antibodies
- Antibody barcoding allows flexible mapping of fluorescent labels through ATTOAdapt adapters
- Supports integration of user-generated antibodies alongside validated panels

Designed for reproducibility

- Defined reagent ecosystem with standardized components
- Validated for human FFPE tissue sections
- Consistent blocking, hybridization, and cycling chemistry across experiments
- Suitable for fluorescence microscopes with detection spectra compatible with ATTOIrida labels







Curious how ATTOAuriga can fit into your workflow?
Contact us to discuss panels, conjugation options, and cyclic imaging strategies.

CONNECT WITH US!

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This material was created and approved prior to the product launch, but only as a pre-announcement.