

ONi

dSTORM Training Kit

Your journey to microscopy expertise



Product Specifications

About

The ONI Training Kit™ for dSTORM is designed to provide a simple workflow to learn the basics of single-molecule localization microscopy, taking users through the journey of obtaining a dSTORM image: from sample preparation, to image acquisition, and analysis using ONI reagents, Nanoimager microscope and CODI software. The kit enables you to understand sample preparation and the fundamentals of dSTORM imaging, and gain confidence before experimenting with your own samples.

Key Features & Benefits

Microscopy slide and reagents to label nuclear pores

Slide with mammalian cells and reagents to label nuclear pores for dSTORM imaging.

Stepwise protocol

Simplified sample preparation with ONI reagents, Nanoimager microscope and CODI software to ensure accurate results.

Sample preparation and imaging video guides

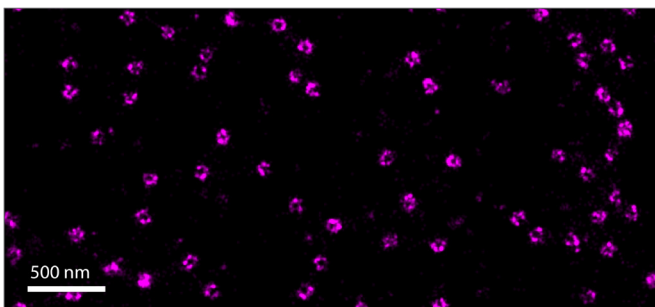
Tutorial videos to ensure correct reagent and sample slide handling, and guidance on setting up and optimizing imaging.

Troubleshooting notes

To help users address common issues that may arise during experiments, ensuring challenges can be overcome.

Access to ONI's CODI software platform

Access to CODI software (Beta version) including tailored analysis settings for dSTORM imaging of nuclear pores.



Kit Components



Sample slide

with mammalian cells fixed on a coverslip #1.5 attached to a bespoke microscope slide designed for easy flowing of reagents



Staining solution

including an antibody against the NUP98 protein, fluorescently labeled with a dSTORM dye



Washing solution

a buffer to remove nonspecific binding of antibodies and help improve the signal-to-noise ratio of dSTORM images



Fixative

to crosslink antibodies to their targets in a postfixation step ready for subsequent imaging



BCubed imaging buffer

our popular two-component buffer to promote fluorophore blinking for optimal dSTORM imaging results



Tailored training materials

stepwise protocol and video tutorials that guide users through sample preparation, imaging optimization and analysis

