



SCIZYS S1 Scanner

Product name	SCIZYS S1
Modality	Brightfield and UCNP imaging
Focus method	Autofocus
UCNP Excitation	Diode laser, 976 nm
File Format	OME-TIFF
Slide Capacity	4 slides (26 mm x 76 mm)
Scanner size	H=704 mm W=610 mm D=752 mm
Weight	128 kg
Article number	412433

Description

The SCIZYS S1 scanner from Lumito is a Whole Slide Imaging (WSI) scanner that images histological samples in brightfield and upconverting nanoparticles (UCNP) luminescence to visualize chromogenic staining as well as the UCNPs.

The brightfield and the UCNP images can be used separately or in combination as an overlay. For UCNP visualization, biotinylated anchor points in histological samples are labelled using SCIZYS Erbium Kit. The near-infrared laser of the scanner is used for UCNP excitation, and the shorter wavelength emission light is detected via a highly sensitive camera.

Key Benefits

1

Higher contrast and granularity compared to traditional immunohistochemistry and immunofluorescence

2

The images show only what is intended to be shown. No disturbing background (autofluorescence) is displayed

3

Two modalities, both traditional brightfield and UCNP-generated images - combined without obscuring the morphology

4

Very low detection threshold, captures low signals



SCIZYS KIT COMPONENTS

SCIZYS Erbium-SA SCIZYS Dilution Buffer SCIZYS Wash Buffer (20x)

SCIZYS Erbium Kit

SCIZYS Erbium Kit **Article number** **SZERKIT-01-01**
 To be used with SCIZYS S1 scanner. For 50 labelings.

SCIZYS Erbium Kit



Component
 SCIZYS Erbium-SA
 Concentration: 5-10 mg/mL

Volume
 75-150 µL



Component
 SCIZYS Dilution Buffer

Volume
 50 mL



Component
 SCIZYS Wash Buffer (20x)

Volume
 500 mL

Description

The SCIZYS Erbium Kit is a UCNP-based IHC kit, for the labelling of biotinylated molecules in haematoxylin-stained histological samples. The biotin molecule works as an anchor point

for the UCNP conjugate and can be located on a secondary Ab that in turn is specific for a primary Ab.

For research use only