Hans-Adolf-Krebs-Weg 6
37077 Göttingen, Germany
E-Mail: support@abberior.com
Website: abberior.rocks

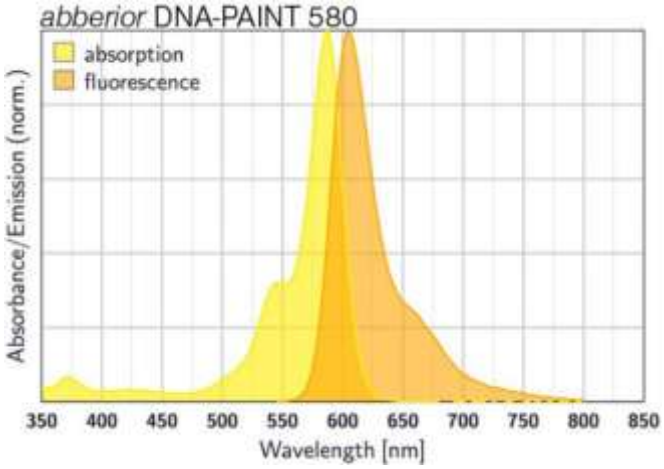
abberior DNA-PAINT 580, MASSIVE anti-mouse MINFLUX Kit

Item number

PAINT580-0061-1KIT

Description

abberior DNA-PAINT 580 is designed for DNA-PAINT MINFLUX microscopy in the orange spectral range, offering superior imaging performance. With outstanding photostability and a fluorescent quantum yield of 90%, it ensures bright and reliable results. Easily excited between 550-600 nm, this dye is an excellent substitute for Cy3, Cy3B, ATTO® 590, or Alexa Fluor® 568. For optimal performance, we recommend using freshly prepared samples. Perfect for achieving high-resolution nanoscale imaging!



This kit contains a camelid single-domain antibody (sdAb) for DNA-PAINT, targeting the mouse IgG kappa light chain. The sdAb is attached to a DNA-PAINT docking site, and two sdAbs bind to one primary antibody, creating two docking sites per primary antibody. The compact size of the camelid sdAbs minimizes linkage error and enhances the accessibility of primary antibody-labeled proteins. The included imager strands are conjugated to abberior DNA-PAINT 580, ensuring exceptional performance in the orange spectral range. Optimized for MINFLUX imaging, the kit has all the necessary buffers for immunostaining and DNA-PAINT imaging, delivering unmatched accuracy in nanoscale measurements.

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Properties

Absorption	λ_{ex} [nm]	587
Extinction Coefficient	ε_{max} [$M^{-1}cm^{-1}$]	85000
Emission	λ_{em} [nm]	607
Quantum Efficiency	η_{fl} [%]	90
Fluorescence Lifetime	τ_{fl} [ns]	3.5
Correction Factor 260	CF_{260}	0.17
Correction Factor 280	CF_{280}	0.17
Molecular Weight	MW [g/mol]	2942
Charge	Δq	1
Derivative/Conjugate		DNA-PAINT Kit

Photophysical properties were measured for carboxylic acid in PBS pH 7.4.

Storage

Upon arrival, the product can be stored as described below. Protect the conjugate from direct light exposure and avoid repeated freeze-thaw cycles.

- Store sdAB at -20°C.
- Store Imager with dye at -20°C.
- Store Abberior Antibody inubation, Washing and Imaging buffer at 4°C.