

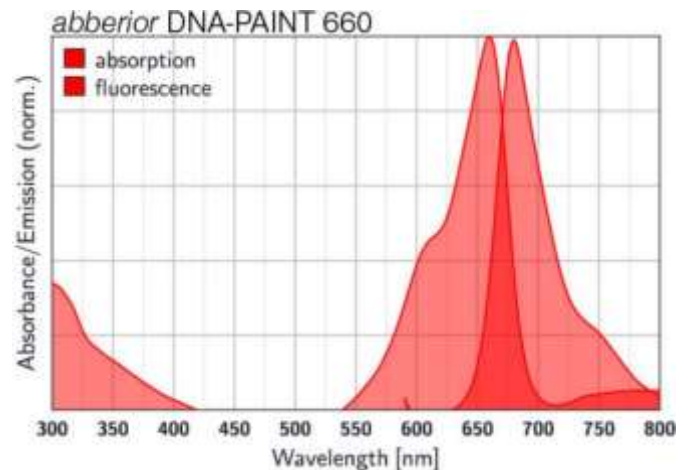
abberior DNA-PAINT 660, MASSIVE anti-rabbit MINFLUX Kit

Item number

PAINT660-0062-1KIT

Description

abberior DNA-PAINT 660 is specifically designed for DNA-PAINT MINFLUX microscopy in the red spectral range, delivering exceptional imaging quality. With outstanding brightness, photostability, and high water solubility, it ensures clear, background-free results. Easily excited at 630-670 nm, it is an ideal substitute for ATTO® 655 or Alexa Fluor® 660. For best results, 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 rabbit IgG. 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 660, ensuring exceptional performance in the red 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.

Properties

Absorption	λ_{ex} [nm]	660
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	130000
Emission	λ_{em} [nm]	680
Quantum Efficiency	η_{fl} [%]	30
Fluorescence Lifetime	τ_{fl} [ns]	2
Correction Factor 260	CF ₂₆₀	0.55
Correction Factor 280	CF ₂₈₀	0.34
Molecular Weight	MW [g/mol]	2924
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 at ≤ 4 °C. Protect the conjugate from direct light exposure and avoid repeated freeze-thaw cycles.