

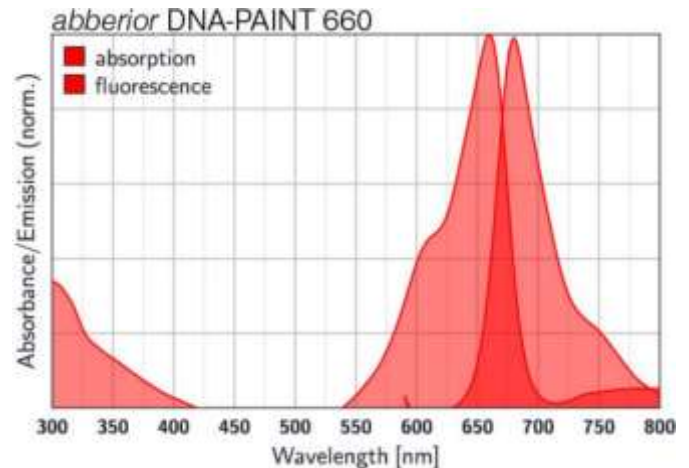
## abberior DNA-PAINT 660, MASSIVE anti-mouse MINFLUX Kit

### Item number

PAINT660-0061-1KIT

### 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 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 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             | $\lambda_{\text{ex}}$ [nm]                                  | 660           |
| Extinction Coefficient | $\epsilon_{\text{max}}$ [M <sup>-1</sup> cm <sup>-1</sup> ] | 130000        |
| Emission               | $\lambda_{\text{em}}$ [nm]                                  | 680           |
| Quantum Efficiency     | $\eta_{\text{fl}}$ [%]                                      | 30            |
| Fluorescence Lifetime  | $\tau_{\text{fl}}$ [ns]                                     | 2             |
| Correction Factor 260  | CF <sub>260</sub>   | 0.55          |
| Correction Factor 280  | CF <sub>280</sub>   | 0.34          |
| Molecular Weight       | MW [g/mol]  | 2924          |
| Charge                 | $\Delta q$  | 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  $\leq 4$  °C. Protect the conjugate from direct light exposure and avoid repeated freeze-thaw cycles.