

## abberior STAR 635, goat anti-mouse IgG, 500 µl (1 mg/ml)

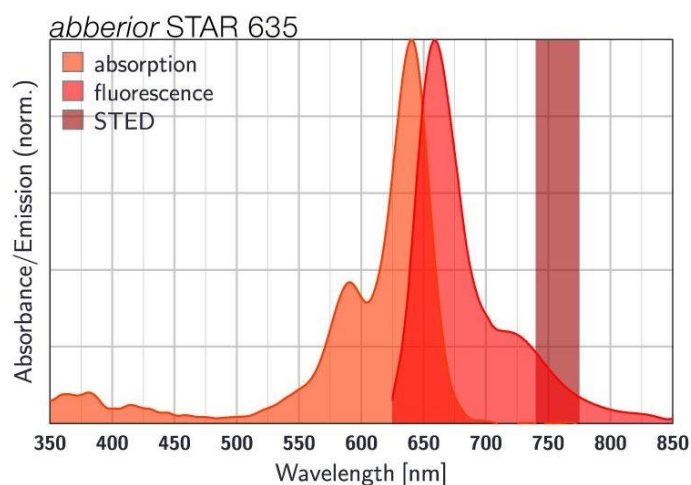
### Item number

ST635-1001-500UG

### Description

abberior STAR 635 is a dye developed for STED and confocal imaging in the red spectral region. It features exceptional photostability, very high brightness and low background labeling. abberior STAR 635 can be excited with lasers at wavelength between 630 - 650 nm. For STED, a depletion wavelength around 750 - 800 nm is recommended. Our abberior STAR 635 can substitute dyes like ATTO® 647N, Alexa Fluor® 647, or Cy5®. Best results are obtained with freshly prepared samples.

Organic fluorescent dye conjugated with polyclonal secondary anti-mouse IgG antibody, host: goat, concentration 1 mg/ml.



### Properties

|                        |                                                             |        |
|------------------------|-------------------------------------------------------------|--------|
| Absorption             | $\lambda_{\text{ex}}$ [nm]                                  | 635    |
| Extinction Coefficient | $\epsilon_{\text{max}}$ [M <sup>-1</sup> cm <sup>-1</sup> ] | 110000 |
| Emission               | $\lambda_{\text{em}}$ [nm]                                  | 655    |
| Quantum Efficiency     | $\eta_{\text{fl}}$ [%]                                      | 88     |
| STED min.              | $\lambda_{\text{STED min}}$ [nm]                            | 750    |
| STED max.              | $\lambda_{\text{STED max}}$ [nm]                            | 800    |
| Fluorescence Lifetime  | $\tau_{\text{fl}}$ [ns]                                     | 2.8    |
| Correction Factor 260  | CF <sub>260</sub>                                           | 0.26   |
| Correction Factor 280  | CF <sub>280</sub>                                           | 0.38   |
| Charge                 | $\Delta q$                                                  | 0      |
| Derivative/Conjugate   | anti-Mouse IgG                                              |        |

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



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## **Storage**

The product contains a vial of buffered solution and is shipped at room temperature. Upon arrival, the product can be stored at 4 °C for up to one month. Please split the product into smaller aliquots and store these at -20 °C to -80 °C for long-term storage of up to one year. Protect the conjugate from direct light exposure and avoid repeated freeze-thaw cycles.