

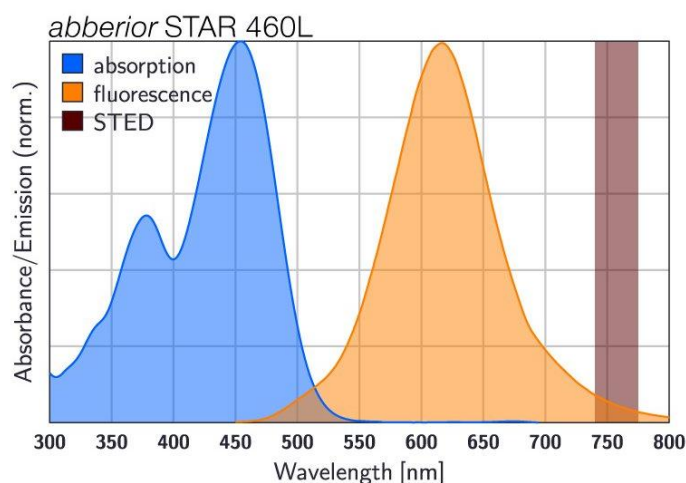
## abberior STAR 460L, goat anti-rabbit IgG, 500 µl (1 mg/ml)

### Item number

ST460L-1002-500UG

### Description

abberior STAR 460L is a long Stokes-shift dye optimized for STED and confocal microscopy. It shows a large Stokes-shift of approx. 162 nm and has a broad excitation and emission band: The dye is excited most efficiently in the range of 440 - 490 nm and emits between 560 - 680 nm. For STED microscopy abberior STAR 460L can be used with STED laser wavelengths between 750 - 800 nm. All these features making abberior STAR 460L the optimal dye for multicolor STED experiments, in particular as 3rd color in combination with abberior STAR ORANGE and STAR RED.



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

### Properties

|                        |                                                      |       |
|------------------------|------------------------------------------------------|-------|
| Absorption             | $\lambda_{ex}$ [nm]                                  | 455   |
| Extinction Coefficient | $\epsilon_{max}$ [M <sup>-1</sup> cm <sup>-1</sup> ] | 28000 |
| Emission               | $\lambda_{em}$ [nm]                                  | 617   |
| Quantum Efficiency     | $\eta_f$ [%]                                         | 17    |
| STED min.              | $\lambda_{STED min}$ [nm]                            | 750   |
| STED max.              | $\lambda_{STED max}$ [nm]                            | 800   |
| Fluorescence Lifetime  | $\tau_f$ [ns]                                        | 2     |
| Correction Factor 260  | CF <sub>260</sub>                                    | 0.55  |
| Correction Factor 280  | CF <sub>280</sub>                                    | 0.33  |
| Charge                 | $\Delta q$                                           | 0     |
| Derivative/Conjugate   | anti-Rabbit 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.