

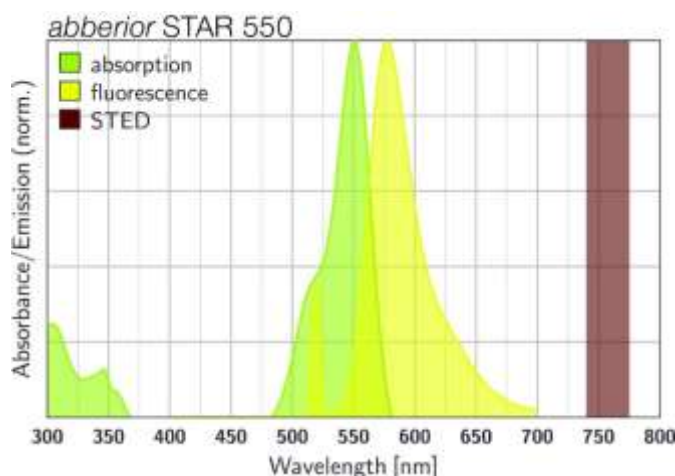
abberior STAR 550, goat anti-rabbit IgG, 500 µl (1 mg/ml)

Item number

ST550-1002-500UG

Description

abberior STAR 550 was developed for STED and confocal microscopy in the green-orange spectral region. Characteristic features of this dye are its exceptional photostability and brightness. abberior STAR 550 can be very effectively excited effectively excited with a 561 nm laser. For STED microscopy, abberior STAR 550 can be used most efficiently with a STED laser wavelength between 650 – 775 nm. In combination with abberior STAR BLUE, abberior STAR ORANGE, and abberior STAR RED, abberior STAR 550 enables versatile 4-color imaging across a broad spectral range. Best results are obtained with freshly prepared samples.



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

Properties

| | | |
|------------------------|--|-------|
| Absorption | λ_{ex} [nm] | 552 |
| Extinction Coefficient | ϵ_{max} [M ⁻¹ cm ⁻¹] | 85000 |
| Emission | λ_{em} [nm] | 574 |
| Quantum Efficiency | η_f [%] | 44 |
| STED min. | $\lambda_{STED min}$ [nm] | 650 |
| STED max. | $\lambda_{STED max}$ [nm] | 775 |
| Fluorescence Lifetime | τ_f [ns] | 3.8 |
| Correction Factor 260 | CF ₂₆₀ | 0.3 |
| Correction Factor 280 | CF ₂₈₀ | 0.2 |
| Charge | Δq | 0 |
| Derivative/Conjugate | anti-Rabbit IgG | |



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Storage

These products contain 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.