

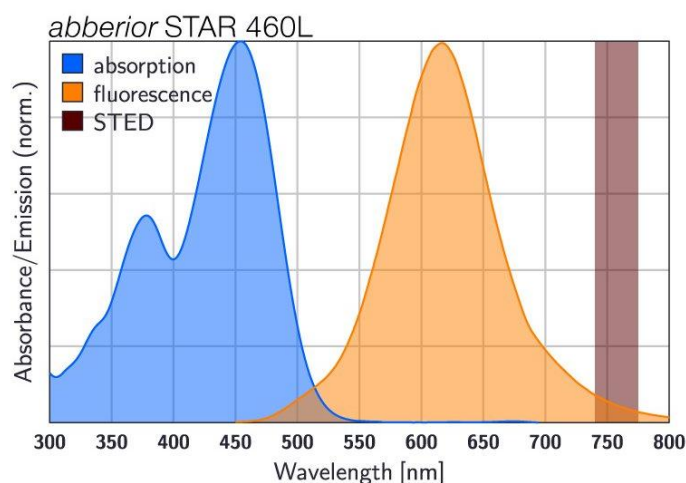
abberior STAR 460L, streptavidin, 1 mg

Item number

ST460L-0120-1MG

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.



Streptavidin is suitable for fluorescence labeling of biotin conjugated molecules.

Properties

Absorption	λ_{ex} [nm]	455
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	28000
Emission	λ_{em} [nm]	617
Quantum Efficiency	η_{fl} [%]	17
STED min.	$\lambda_{\text{STED min}}$ [nm]	750
STED max.	$\lambda_{\text{STED max}}$ [nm]	800
Fluorescence Lifetime	τ_{fl} [ns]	2
Correction Factor 260	CF ₂₆₀	0.55
Correction Factor 280	CF ₂₈₀	0.33
Charge	Δq	0
Derivative/Conjugate	Streptavidin	

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 are 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.