

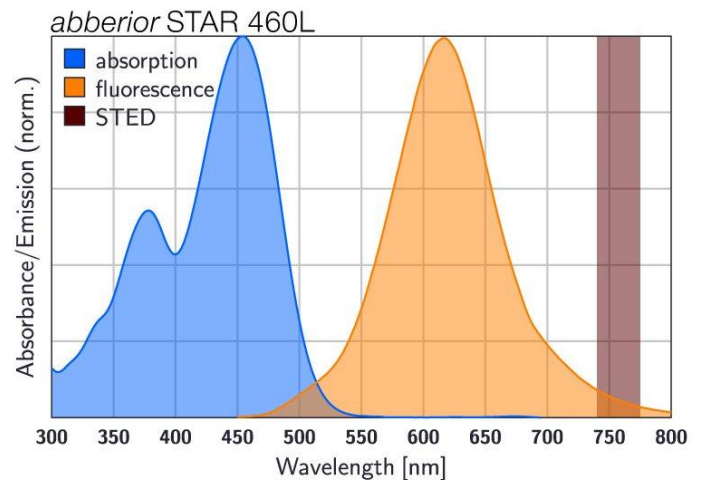
abberior STAR 460L, phalloidin, 20 µg

Item number

ST460L-0100-20UG

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.



Fluorescent dye conjugate of phalloidin are used to stain F-actin. The high specificity of phalloidin offers significant advantages over antibodies for actin labeling.

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
Molecular Weight	MW [g/mol]	1218
Derivative/Conjugate	Phalloidin	

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

Storage

Our *abberior phalloidin* probes are freeze-dried and shipped at room temperature. Upon arrival, the product can be stored for up to one year at –20 °C. Shortly before the staining procedure dissolve the probe in DMF or DMSO. Once dissolved the stock solutions should be kept at –20 °C, protected from light and moisture.

- Depending on solvent quality the shelf-life of the stock solutions might be significantly reduced compared to the phalloidin conjugate in its solid form. Repeated freeze-thaw cycles can be avoided by splitting the dissolved compound into smaller aliquots.