

abberior CAGE 500, goat anti-mouse IgG, 500 µg

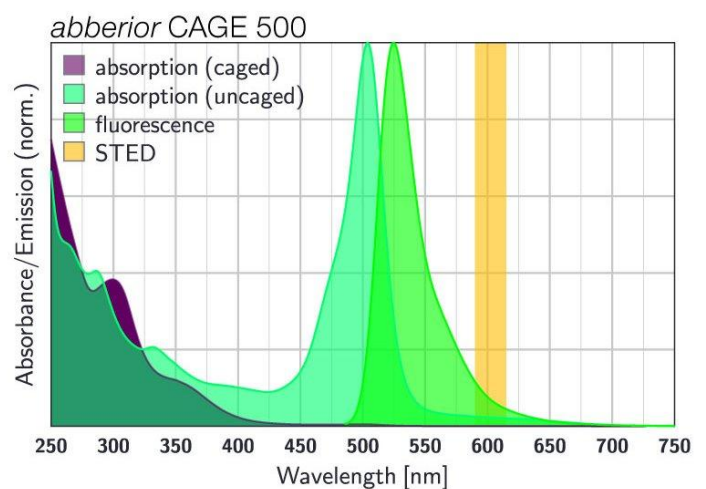
Item number

CA500-1001-500UG

Description

abberior CAGE 500 is a caged dye which is initially colorless and nonfluorescent. When illuminated with UV light it undergoes a rapid uncaging reaction and releases a highly fluorescent dye which has a fluorescence maximum at 525 nm. abberior CAGE 500 is designed for single-molecule photoswitching microscopy modes such as PALM, STORM and GSDIM and, in its uncaged form, also performs well in STED microscopy. Further, after photoactivation, abberior CAGE 500 can be tracked to analyze molecular dynamics such as diffusion, flow directions and velocities in tracking experiments (in which the fluorescence signal is observed over time after the initial release of the fluorophore).

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



Properties

Absorption	λ_{ex} [nm]	511
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	50000
Emission	λ_{em} [nm]	525
Quantum Efficiency	η_{fl} [%]	85
Activation	λ_{act} [nm]	405
STED min.	$\lambda_{\text{STED min}}$ [nm]	590
STED max.	$\lambda_{\text{STED max}}$ [nm]	610
Fluorescence Lifetime	τ_{fl} [ns]	4.1
Charge	Δq	0
Derivative/Conjugate	anti-Mouse IgG	

*Photophysical properties were measured for carboxylic acid in PBS pH 7.4.
Values refer to the photoactivated state of the dye.*

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.