

abberior PLEX, 4 color, Kit C

Item number

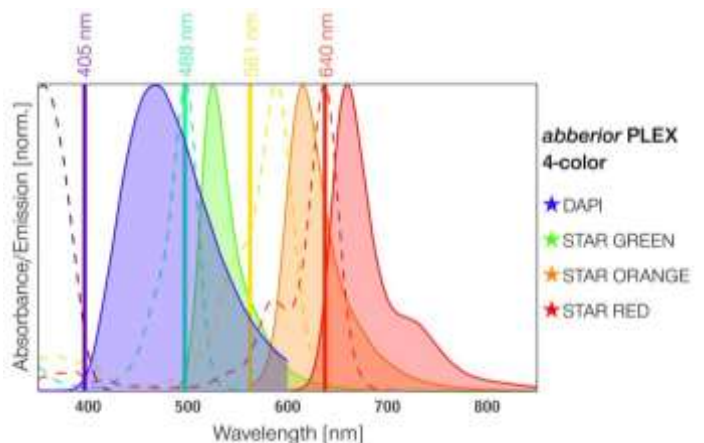
PLEX-0003-1KIT

Description

The *abberior* PLEX 4 color kit offers an all-in-one solution for your 4-color fluorescence experiments. This comprehensive set includes the highly photostable and soluble reagents you need for confocal and STED-ready imaging, all from a single supplier.

Key Features:

- Ready-to-Use, Easy-to-Apply Reagents: All necessary components for 4-color experiments, conveniently provided in one kit.
- Bright, Photostable Fluorophores: Features *abberior* STAR RED, STAR ORANGE, STAR GREEN, and DAPI (blue), which are highly soluble and provide excellent fluorescence for multi-color labeling.
- Compatible with Standard Excitation Lasers and Emission Filters: The fluorophores are perfectly suited for use with widely available laser lines and emission filters, ensuring ease of integration into existing setups.
- High Throughput: With the included reagents, you can perform up to 1000 4-color stainings, making it an efficient and cost-effective solution for high-volume experiments.
- STED-Ready for Enhanced Resolution: These dyes are optimized for both confocal and STED microscopy, allowing for superior resolution and photostability in your super-resolution experiments.



Properties

abberior STAR RED

Absorption	λ_{ex} [nm]	638
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	120000
Emission	λ_{em} [nm]	655
Quantum Efficiency	η_{fl} [%]	90
STED min.	$\lambda_{\text{STED min}}$ [nm]	750
STED max.	$\lambda_{\text{STED max}}$ [nm]	800
Fluorescence Lifetime	τ_{fl} [ns]	3.4
Correction Factor 260	CF ₂₆₀	0.16
Correction Factor 280	CF ₂₈₀	0.32
Charge	Δq	-1
Derivative/Conjugate	anti-Mouse IgG	

abberior STAR ORANGE

Absorption	λ_{ex} [nm]	589
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	95000
Emission	λ_{em} [nm]	616
Quantum Efficiency	η_{fl} [%]	55
STED min.	$\lambda_{\text{STED min}}$ [nm]	750
STED max.	$\lambda_{\text{STED max}}$ [nm]	800
Fluorescence Lifetime	τ_{fl} [ns]	4.5
Correction Factor 260	CF ₂₆₀	0.55
Correction Factor 280	CF ₂₈₀	0.56
Charge	Δq	-3
Derivative/Conjugate	anti-Rabbit IgG	

abberior STAR GREEN

Absorption	λ_{ex} [nm]	493
Extinction Coefficient	ϵ_{max} [M ⁻¹ cm ⁻¹]	75000
Emission	λ_{em} [nm]	519
Quantum Efficiency	η_{fl} [%]	84
STED min.	$\lambda_{\text{STED min}}$ [nm]	590
STED max.	$\lambda_{\text{STED max}}$ [nm]	610
Fluorescence Lifetime	τ_{fl} [ns]	4.1
Correction Factor 260	CF ₂₆₀	0.48
Correction Factor 280	CF ₂₈₀	0.34
Charge	Δq	0
Derivative/Conjugate	anti-Rabbit IgG	

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

abberior MOUNT Solid Antifade:

- pH 8.5
- Refractive Index (before hardening): n = 1.38

Components

	Kit A	Kit B	Kit C
	STAR RED goat anti-mouse	STAR RED goat anti-mouse	STAR RED goat anti-mouse
	STAR ORANGE goat anti-rabbit	STAR ORANGE phalloidin	STAR ORANGE goat anti-rabbit
	STAR GREEN phalloidin	STAR GREEN goat anti-rabbit	STAR GREEN goat anti-rabbit
	+ DAPI	+ Mount Solid Antifade	

- abberior STAR RED (goat anti-mouse IgG), 100µl (1 mg/ml)
- abberior STAR ORANGE (goat anti-rabbit IgG), 100µl (1 mg/ml)
- abberior STAR GREEN (goat anti-rabbit IgG), 100µl (1 mg/ml)
- DAPI
- abberior MOUNT Solid Antifade, 3 x 1ml / n=1.38 / pH 8.5

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.
- Our abberior conjugate 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 probes from direct light exposure and avoid repeated freeze-thaw cycles. Repeated freeze-thaw cycles can be avoided by splitting the dissolved compound into smaller aliquots.
- The abberior Mounting Medium should be stored at 4°C for short-term storage and at -20°C for long-term storage.