

2017-01-04 STED dyes compatible with 592 nm or 775 nm depletion lasers

Depl. Laser	Dyes	Supplier
592	EYFP Citrine/Venus (better than EGFP)	
	mNeonGreen (fl. protein)	Allele Biotechnology
	OregonGreen	ThermoFisher
	Alexa488	ThermoFisher
	STAR488	Abberior
775	STAR440SXP (large stokes shift)	Abberior
	STAR635P	Abberior
	STARRed	Abberior
	STAR580	Abberior
	Atto647N	Atto-Tec
	SiR-dye5 (see more info below)	Spirochrome (Tebu-Bio)/NEB
	Atto594	Atto-Tec
	Alexa594	ThermoFisher
	STAR470SXP (large stokes shift)	Abberior

Web addresses

- <http://www.allelebiotech.com/mneongreen/>
- <https://www.thermofisher.com/no/en/home/life-science/cell-analysis/fluorophores/oregon-green.h>
- <https://www.thermofisher.com/no/en/home/life-science/cell-analysis/fluorophores/alexa-fluor-488>
- <http://www.abberior.com/shop/Labels-by-Application/Confocal-Epi-SIM/Abberior-STAR-488::3.html>
- <http://www.abberior.com/shop/Labels-by-Application/Confocal-Epi-SIM/Abberior-STAR-440SXP::1.h>
- <http://www.abberior.com/shop/Labels-by-Application/Confocal-Epi-SIM/Abberior-STAR-635P::9.htr>
- <http://www.abberior.com/shop/Labels-by-Application/Confocal-Epi-SIM/Abberior-STAR-RED::10.htr>
- <http://www.abberior.com/shop/Labels-by-Application/Confocal-Epi-SIM/Abberior-STAR-580::6.html>
- https://www.atto-tec.com/attotecshop/product_info.php?language=en&info=p106_ATTO-594.html
- http://www.atto-tec.com/attotecshop/product_info.php?language=en&info=p114_atto-647n.html&
- <https://www.thermofisher.com/no/en/home/life-science/cell-analysis/fluorophores/alexa-fluor-594>
- <http://www.abberior.com/shop/Labels-by-Application/Confocal-Epi-SIM/Abberior-STAR-470SXP::2.h>

Multi labelling and delpction w/same STED-laser

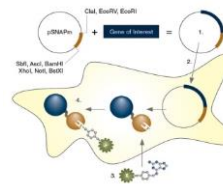
Depl. Laser	Dye1	Dye2	Dye3
775	Atto594/Alexa594	STAR635P	
775	Atto594/Alexa594	Atto647N	
775	STAR580	STAR635P	
775	STAR470SXP	STAR635P	
775	Alexa568	Atto594	SiR
775	Atto594/Alexa594	SiR	SiR700 (new)
592	STAR440SXP	STAR488/Alexa488/OregonGreen	

SiR-Dyes

Labels	SiR (Abs/Em: 652/674)	SiR700 (Abs/Em: 689/716)	Supplier
Tubulin	x	x	TebuBio
Actin	x	x	TebuBio
DNA	x	x	TebuBio
Lysosomes	x	x	TebuBio
SNAP-tag	x		NEB
CLIP-tag	x		NEB
HALO-tag	x		?

<http://spirochrome.com/products/>

<https://www.neb.com/tools-and-resources/selection-charts/snap-tag-clip-tag-and-acp-mcp-tag-sub>



Imaging with SNAP- and CLIP-tag Technology: Clone gene of interest into NEB expression vector. 2) Transfect plasmid fusion into cells, protein is expressed in cells. 3) Add label of interest. 4) Covalent modification occurs, labeling protein for visualization.

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[.trate-selection-chart](#)