

Image: **Region 3_Merged_Crop001**Size: **166,11 MB**File Location: **C:\Users\erdin\OneDrive\My Articles\Jove_2022\RAW Jove figures\lasx\11.11.2020_kpc1510+2d b3 gfap.tif**Start Time: **11.11.2020 15:32:02.107**End Time: **11.11.2020 15:31:43.831**Total Exposures: **44 (4 channels, 11 frames)**Data from: **LAS X 3.5.5.19976**

MICROSYSTEMS

Shown Devices: **Active** and
Inactive ([Toggle](#))**Dimensions**

Dimension	Logical Size	Physical Length	Start Position	End Position	Pixel Size / Voxel Size
X	1953	869.87 µm	0 µm	869.87 µm	0.446 µm
Y	1933	860.96 µm	0 µm	860.96 µm	0.446 µm
Z	11	20 µm	68 µm	87.99 µm	2 µm

Channels

LUT	Resolution	Min	Max	STED: DetectorMode / Huygens saturation factor / Wavelength
Blue 	8	0	255	--- / --- / ---
Green 	8	0	255	--- / --- / ---
Red 	8	0	255	--- / --- / ---
Cyan 	8	0	255	--- / --- / ---

Time Stamps:

Frame (Show All)	Relative Time (s)	Absolute Time (h:m:s.ms)	Date
1	0,000	15:32:02.107	11.11.2020
44	-18,276	15:31:43.831	11.11.2020

Confocal Settings

Name	Value
Rotator Angle	-1.38 °
Scan Mode	xyz
Scan Direction X	Bidirectional
Scan Speed	700 Hz
Version Number	15
StagePosX	50,213.1 µm
StagePosY	47,345.75 µm
ZPosition	8.77 µm
IsSuperZ	0
Magnification	20

ObjectiveName	HC PL APO CS2 20x/0.75 IMM
Immersion	IMM
Numerical Aperture	0.75
RefractionIndex	1.518
Zoom	1.28
Pinhole	56.6 μ m
PinholeAiry	999.82 mAU
EmissionWavelength for PinholeAiry Calculation	580 nm
FrameAverage	1
LineAverage	1
FrameAccumulation	1
Line_Accumulation	1
IsUserSettingNameSet	0
IsRoiScanEnable	0

Filter Wheels / Other Motorized Devices

Device Name	Filter Name/Position
Target Slider	Target Park
X2 Lens Changer	CS2 UV Optics 2

Lasers

LaserName	OutputPower
Diode 405	On
WLL	On, 70,0000 %

Laser Lines

Laser Line	Intensity
(405 nm)	Shutter: on, Intensity: 1.0023%
(499 nm)	Shutter: off, Intensity: 0.0000%
(598 nm)	Shutter: off, Intensity: 0.0000%
(653 nm)	Shutter: off, Intensity: 0.0000%
(470 nm)	Shutter: off, Intensity: 0.0000%
(471 nm)	Shutter: off, Intensity: 0.0000%
(670 nm)	Shutter: off, Intensity: 0.0000%
(669 nm)	Shutter: off, Intensity: 0.0000%
(668 nm)	Shutter: off, Intensity: 0.0000%

Detectors

Name	Channel	Type	Location	Active	Gain	Offset	Gate Start	Gate End	Gate Ref. Wavelength
HyD 1	Channel 1	HyD (395nm - 400nm) Standard mode	Internal	Inactive	100	--	--	--	-- Time Gating not activated --
PMT 2	Channel 2	PMT (400nm - 405nm)	Internal	Inactive	0	0	--	--	-- Time Gating not supported --
HyD 3	Channel 3	HyD (405nm - 410nm) Standard mode	Internal	Inactive	100	--	--	--	-- Time Gating not activated --
PMT 4	Channel 4	PMT (417nm - 462nm)	Internal	Active	800	-0.5	--	--	-- Time Gating not supported --
	Transmission						--	--	-- Time Gating not supported --

PMT Trans	Channel	PMT	TLD	Inactive	235.2	0
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Sequential Setting Nr.1

Pinhole	56.6 µm
PinholeAiry	999.82 mAU
EmissionWavelength for PinholeAiry Calculation	580 nm
Target Slider	Target Park
X2 Lens Changer	CS2 UV Optics 2
HyD 1 (395nm - 400nm) Standard mode	Inactive, Gain: 100, Offset: 0
HyD Timegate (-1 nm)	Inactive, Gate Start: 0.3 ns, Gate End: 6 ns
PMT 2 (400nm - 405nm)	Inactive, Gain: 0, Offset: 0
HyD 3 (405nm - 410nm) Standard mode	Inactive, Gain: 100, Offset: 0
HyD Timegate (-1 nm)	Inactive, Gate Start: 0.3 ns, Gate End: 6 ns
PMT 4 (417nm - 462nm)	Active, Gain: 800, Offset: 0
PMT Trans	Inactive, Gain: 235, Offset: 0
Laser Line (405 nm)	Shutter: on, Intensity: 1.0023%
Laser Line (499 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (598 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (653 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (470 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (471 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (670 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (669 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (668 nm)	Shutter: off, Intensity: 0.0000%

Sequential Setting Nr.2

Pinhole	56.6 µm
PinholeAiry	999.82 mAU
EmissionWavelength for PinholeAiry Calculation	580 nm
Target Slider	Target Park
X2 Lens Changer	CS2 UV Optics 2
HyD 1 (509nm - 530nm) Standard mode	Active, Gain: 100, Offset: 0
HyD Timegate (499 nm)	Active, Gate Start: 0.3 ns, Gate End: 6 ns
PMT 2 (590nm - 595nm)	Inactive, Gain: 0, Offset: 0
HyD 3 (595nm - 600nm) Standard mode	Inactive, Gain: 100, Offset: 0
HyD Timegate (-1 nm)	Inactive, Gate Start: 0.3 ns, Gate End: 6 ns
PMT 4 (600nm - 605nm)	Inactive, Gain: 0, Offset: 0
PMT Trans	Inactive, Gain: 0, Offset: 0
Laser Line (405 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (499 nm)	Shutter: on, Intensity: 3.0012%
Laser Line (598 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (653 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (471 nm)	Shutter: on, Intensity: 0.0000%

Laser Line (472 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (668 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (667 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (666 nm)	Shutter: on, Intensity: 0.0000%

Sequential Setting Nr.3

Pinhole	56.6 μ m
PinholeAiry	999.82 mAU
EmissionWavelength for PinholeAiry Calculation	580 nm
Target Slider	Target Park
X2 Lens Changer	CS2 UV Optics 2
HyD 1 (609nm - 630nm) Standard mode	Active, Gain: 100, Offset: 0
HyD Timegate (598 nm)	Active, Gate Start: 0.3 ns, Gate End: 6 ns
PMT 2 (641nm - 646nm)	Inactive, Gain: 0, Offset: 0
HyD 3 (646nm - 651nm) Standard mode	Inactive, Gain: 100, Offset: 0
HyD Timegate (-1 nm)	Inactive, Gate Start: 0.3 ns, Gate End: 6 ns
PMT 4 (651nm - 656nm)	Inactive, Gain: 0, Offset: 0
PMT Trans	Inactive, Gain: 0, Offset: 0
Laser Line (405 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (499 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (598 nm)	Shutter: on, Intensity: 0.3999%
Laser Line (653 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (472 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (473 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (666 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (665 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (664 nm)	Shutter: on, Intensity: 0.0000%

Sequential Setting Nr.4

Pinhole	56.6 μ m
PinholeAiry	999.82 mAU
EmissionWavelength for PinholeAiry Calculation	580 nm
Target Slider	Target Park
X2 Lens Changer	CS2 UV Optics 2
HyD 1 (603nm - 641nm) Standard mode	Inactive, Gain: 100, Offset: 0
HyD Timegate (-1 nm)	Inactive, Gate Start: 0.3 ns, Gate End: 6 ns
PMT 2 (641nm - 646nm)	Inactive, Gain: 0, Offset: 0
HyD 3 (661nm - 679nm) Standard mode	Active, Gain: 100, Offset: 0
HyD Timegate (653 nm)	Active, Gate Start: 0.3 ns, Gate End: 6 ns
PMT 4 (775nm - 780nm)	Inactive, Gain: 0, Offset: 0
PMT Trans	Inactive, Gain: 0, Offset: 0
Laser Line (405 nm)	Shutter: off, Intensity: 0.0000%
Laser Line (499 nm)	Shutter: on, Intensity: 0.0000%

Laser Line (598 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (653 nm)	Shutter: on, Intensity: 1.0005%
Laser Line (473 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (474 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (664 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (663 nm)	Shutter: on, Intensity: 0.0000%
Laser Line (662 nm)	Shutter: on, Intensity: 0.0000%