Biosensis NisslFluor™ RTD™ Fluorescent Nissl Stains

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Make sense of your research!

Nissl stains have been a traditional brightfield counter stain for detecting neurons in brain sections for over a century. Biosensis Pty Ltd. is pleased to announce the addition of four different colored fluorescent Nissl stains to our ready-to-dilute (RTD™) line of tracing reagents. Available in four colors with excitations of UV, blue, and green light, these four new Nissl stains provide the diversity and flexibility needed to adapt to almost any fluorescent labeling scenario.

NisslFluor™ Advantages

- Brighter with Great fade resistance
- Fast and Easy to Use!
- Compatible with all Fixation Methods
- Easy-to-Follow Staining Methodology
- Diverse Color Range
- 10X stock, > 800 slides per kit
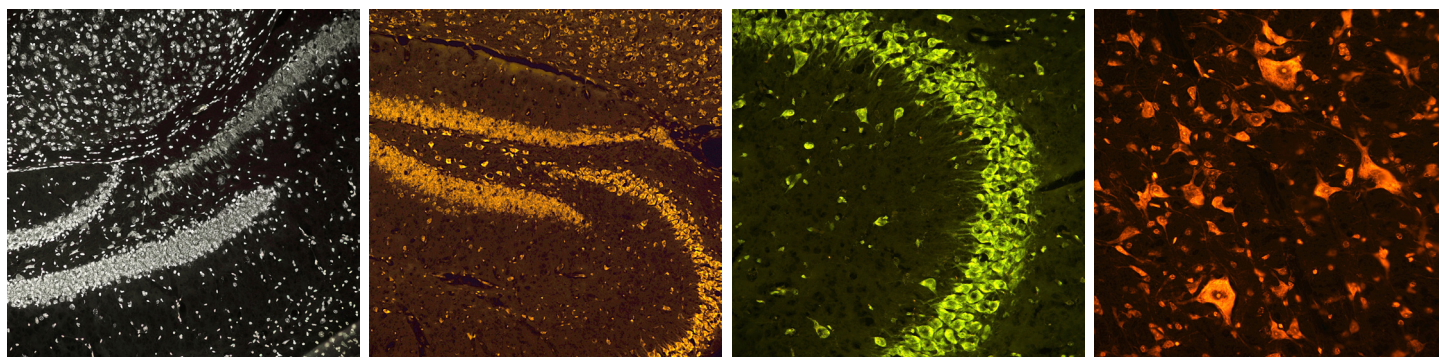
Comparing NisslFluor™ fluorescent Nissl stains with commercial cyanine tracers

Tracer	mLs of Solution per Order	Stain Endurance Of Time	Brightness	Staining Time	Fade Resistance	Protocol Complexity
NisslFluor™	400 mL	Long	Very Bright	30 min.	Yes	Simple
Competitor NT stains	100 mL	Short Due to Diffusion	Only Moderately Bright	3.5 -18 hrs.	No	Complex

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NisslFluor™ Red RTD™
This will stain the cytoplasm and nuclei of neurons a fluorescent red color under green light excitation.

NisslFluor™ Orange RTD™
This will stain the cytoplasm and nuclei of neurons a fluorescent orange/red color under green light excitation.
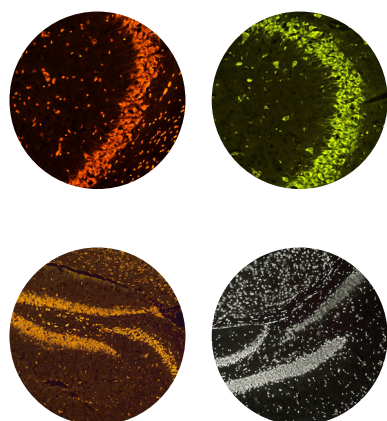
NisslFluor™ Green RTD™
This will stain the cytoplasm and nuclei of neurons a fluorescent green color under blue light excitation

NisslFluor™ Silver RTD™
This will stain the cytoplasm and nuclei of neurons, staining a fluorescent silver-white color under ultraviolet light excitation.

NisslFluor™ Fluorescent Properties

NisslFluor™	Emission Intensity Under Green Light	Emission Intensity Under Blue Light	Emission Intensity Under UV Light	Resistance to Fading
NisslFluor™ Red	Very Bright	Bright	Faint	Highly Stable
NisslFluor™ Orange	Bright	Faint	None	Stable
NisslFluor™ Green	Faint	Bright	None	Stable
NisslFluor™ Silver	None	None	Very Bright	Highly Stable

Biosensis NisslFluor™ RTD™ Fluorescent Stains

Product Name	Catalog No.	Strength	Qty.	Excitation	Color	Slides
NisslFluor™ Red	TR-200-NRD	10X	40 mL	UV light	Red	> 800
NisslFluor™ Orange	TR-210-NOR	10X	40 mL	Green light	Orange	> 800
NisslFluor™ Green	TR-220-NGN	10X	40 mL	Blue Light	Green	> 800
NisslFluor™ Silver	TR-230-NSL	10X	40 mL	UV light	Silver	> 800
NisslFluor™	TR-SMP-MLT	10X	4 X 10 mL	Blu, Grn, UV	Multi	> 800

DG-Sensor™ NF-L Degeneration Specific Antibodies

Biosensis is proud to introduce its new line of neurodegeneration-specific NF-L antibodies. These antibodies recognize epitopes in a small segment of the neurofilament NF-L subunit, which is not normally accessible to antibodies but becomes available upon degeneration in natural or native conditions. They make ideal antibodies for immunohistochemical detection of distressed neurons in frozen, 4% PFA fixed tissue sections. Healthy neurons do not stain when used correctly, as the epitope is not uncovered.

- Specifically detect degenerating neurons
- Specific for NF-L fragments exposed during neuronal distress
- Can be used to complement FJC detection
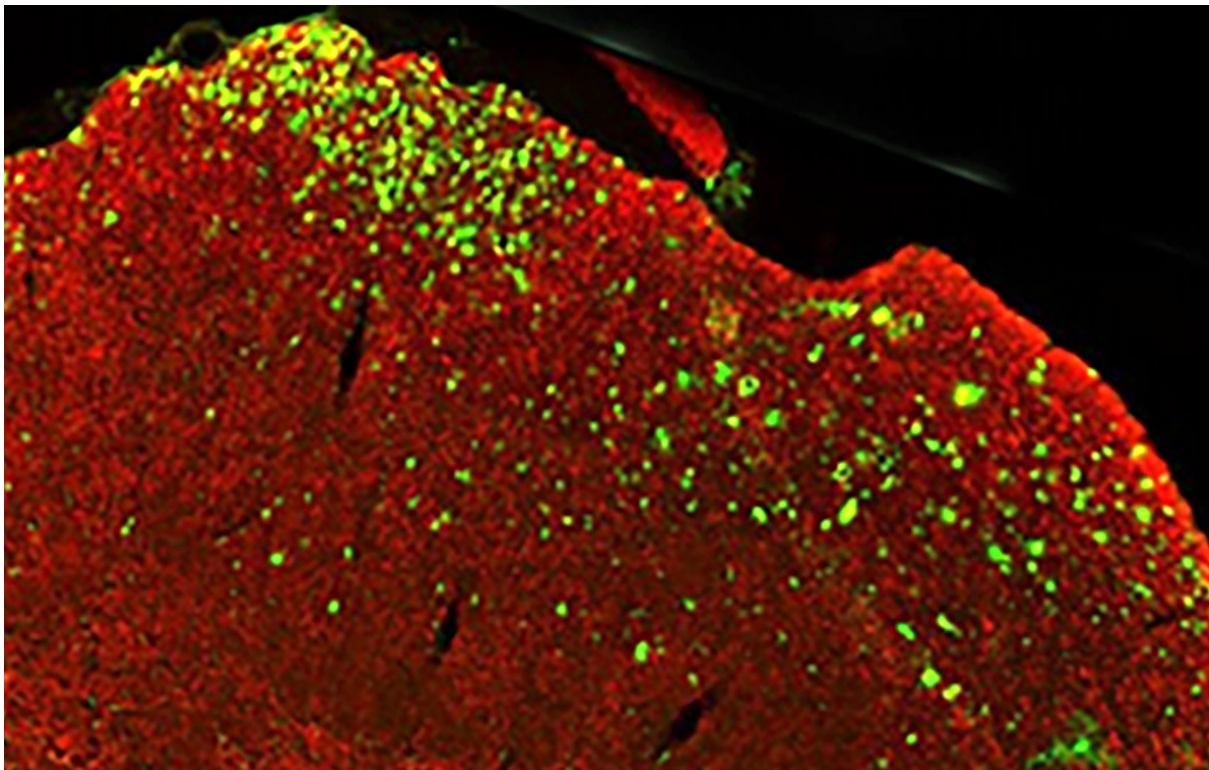- Compatible for 4% PFA fixation

Image of a damaged rat spinal cord section stained with DS-Sensor™ anti-NF-L antibody M-2122-100 (green) and co-stained with R-2113-50, rabbit anti-NF-L antibodies (red). The distressed neurons expose the DG epitope but have lost their C-terminal tail, to which the R-2113-50 antibody binds, thus allowing the detection of both dying neurons (green) & and healthy neurons (red) in the same section.

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DG-Sensor™ NF-L Degeneration Specific Antibodies
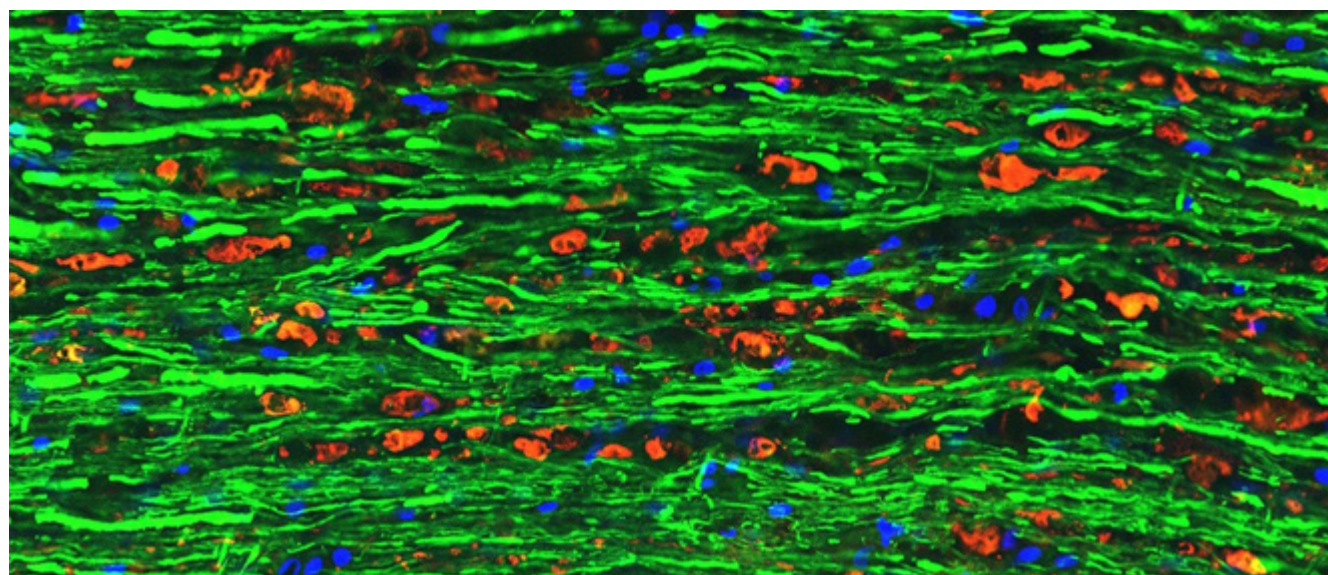
Horizontal section of an injured rat spinal cord stained with R-2124-100, Neurofilament light polypeptide (NF-L) DG-Sensor™, Rabbit pAb, (red, 1:1,000) and co-stained with product M-1394-100, Neurofilament medium polypeptide (NF-M), Clone 3H11, Mouse mAb, (green, 1:1000). Product R-2124-100 does not stain the undamaged axons that M-1394-100 strongly stains (green). On the other hand, linear arrays of swollen profiles originating from damaged axons are strongly positive for R-2124-100 but not for the M-1394-100.

Biosensis DG-Sensor™ Degeneration Specific Antibodies

Target	Host	Species Reactivity	Applications	Catalog No.	Clone
Neurofilament light polypeptide (NF-L)	Mouse	Hu, Rt, Ms, Bov, Pig	IF, ICC, IH, WB	M-2122-100	6H63
Neurofilament light polypeptide (NF-L)	Mouse	Hu, Rt, Ms, Bov, Pig	IF, ICC, IH,WB	M-2123-100	1D44
Neurofilament light polypeptide (NF-L)	Rabbit	Hu, Rt, Ms, Bov, Pig	IH, IF, WB	R-2124-100	poly
Neurofilament light polypeptide (NF-L)	Chicken	Hu, Rt, Ms, Bov, Pig	IH, IF, WB	C-2125-100	poly