



Human/Mouse/Rat Neural 3-Color Immunocytochemistry Kit

Catalog Number: SC024

Size: 25 Tests

Product Description

This kit contains three fluorochrome-conjugated antibodies that can be used for single-step immunocytochemical staining of human/mouse/rat neural cells (including neurons, astrocytes, and oligodendrocytes). Each antibody is supplied as 125 μ L of a 10X solution in PBS containing 0.1% sodium azide.

- Anti-Oligodendrocyte Marker O4 NL557-Conjugated Mouse IgM (Part 967188)
- Anti- β III Tubulin NL637-Conjugated Mouse IgG_{2A} (Part 967189)
- Anti-GFAP NL493-Conjugated Sheep IgG (Part 967190)

The spectral characteristics of each of the fluorochromes used are described below.

Fluorochrome	Absorption Maximum (nm)	Emission Maximum (nm)
NL557	557	574
NL637	637	658
NL493	493	514

Intended Use

This product is designed for the immunocytochemical analysis of human/mouse/rat neural cells using three fluorochrome-conjugated antibodies.

Storage

Store at 2 - 8° C in the dark. Use within 6 months of receipt.

Precaution

Sodium azide may react with lead and copper plumbing to form explosive metallic azides. Flush with large volumes of water during disposal.

Immunocytochemistry Validation

These antibodies have been tested for immunocytochemical staining using 7 day differentiated rat cortical stem cells. Cells were fixed in PBS containing 4% paraformaldehyde and blocked with PBS containing 10% normal donkey serum and 1% BSA. After blocking, cells were incubated with all three conjugated antibodies, each at a final concentration of 1X (1:10 dilution), in blocking buffer for 3 hours at room temperature in the dark. Between each step, cells were washed with PBS containing BSA. When using a staining volume of 50 μ L, this kit contains sufficient material for 25 tests.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

R&D Systems, Inc.
1-800-343-7475

Typical Data

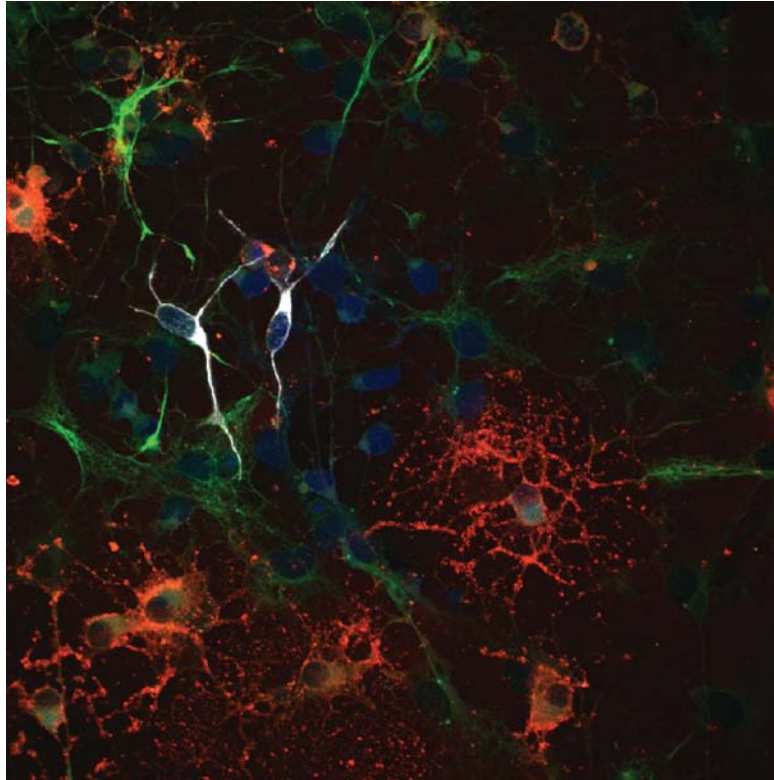


Figure 1: 7 day differentiated rat cortical stem cells were simultaneously stained with NL637-conjugated β III Tubulin (gray), NL493-conjugated GFAP (green), and NL557-conjugated Oligodendrocyte Marker O4 (red). All nuclei were stained with DAPI (blue).

For a full-color image, please refer to our website
(www.RnDSystems.com/pdf/SC024.pdf)