



Human Pluripotent Stem Cell 3-Color Immunocytochemistry Kit

Catalog Number: SC021

Size: 25 Tests

Product Description

This kit contains three fluorochrome conjugated antibodies that can be used for single-step immunocytochemical staining of human pluripotent stem cells (including embryonic and induced pluripotent stem cells). Each antibody is supplied as 125 μ L of a 10X solution in PBS containing 0.1% sodium azide.

- Anti-human SOX2 NL557-Conjugated Goat IgG (part 967149)
- Anti-human Oct-3/4 NL637-Conjugated Goat IgG (part 967150)
- Anti-human Nanog NL493-Conjugated Goat IgG (part 967151)

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 pluripotent stem 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.

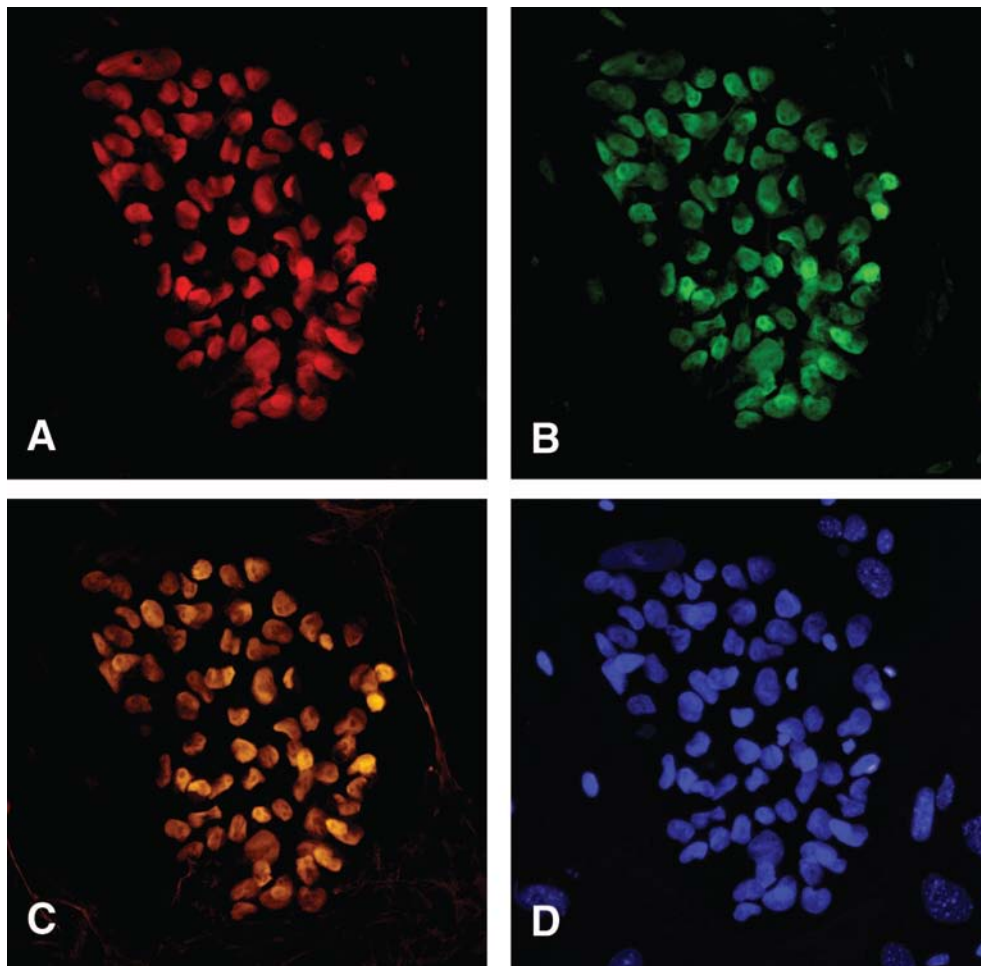
Immunocytochemistry Testing

These antibodies have been tested for immunocytochemistry staining using BG01V cells grown on irradiated mouse embryonic fibroblasts. Cells were fixed in PBS containing 4% paraformaldehyde and blocked with PBS containing 10% normal donkey serum, 0.3% Triton™ X-100, and 1% BSA. After blocking, cells were incubated for 3 hours at room temperature in the dark with all 3 conjugated antibodies at a final concentration of 1X each (1:10 dilution) in blocking buffer. 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



BG01V cells grown on irradiated mouse embryonic fibroblasts were simultaneously stained with (A) NL637-conjugated Oct-3/4, (B) NL493-conjugated Nanog, and (C) NL557-conjugated SOX2. All nuclei were stained with DAPI (shown in panel D).

**For full-color images, please refer to our website
(www.RnDSystems.com/pdf/SC021.pdf)**

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