

Anti-human/mouse SSEA-1-NL557

Catalog Number: NL2155R

Lot Number: ABAT01

100 Tests in 50 μ L staining volume

20 Tests in 250 μ L staining volume

Reagents Provided

NorthernLights™ 557 (NL557)-conjugated mouse monoclonal anti-human/mouse SSEA-1: Supplied as a 10X solution of antibody in 0.5 mL PBS containing 0.1% sodium azide.

Clone #: MC-480

Isotype: mouse IgM

Storage

Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

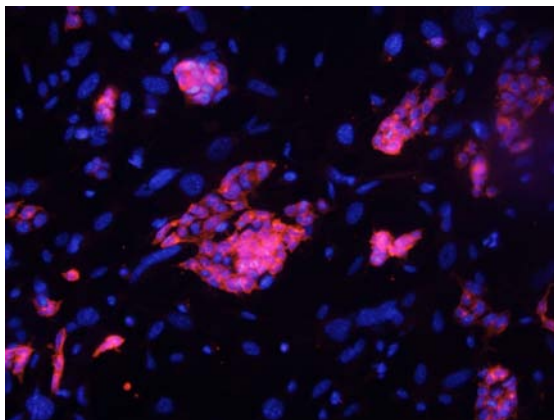
Intended Use

Designed to visualize the expression of human/mouse SSEA-1 by fluorescence microscopy.

Product Description

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with F9 teratocarcinoma stem cells. The IgM fraction of the tissue culture supernatant was purified by anti-IgM chromatography. The purified antibody was then conjugated to fluorochrome NL557. The spectral characteristics of NL557 are provided, along with those of Rhodamine Red™-X (RRX) and Cy™3 for comparison.

Fluorochrome	Absorption Maximum (nm)	Emission Maximum (nm)
NL557	557	574
RRX	570	590
Cy3	548	562



Human/mouse SSEA-1-NL557

D3 cells were stained with NL557-conjugated anti-human/mouse SSEA-1 (Catalog # NL2155R, red) and counterstained with DAPI (blue).

Background Information

Stage-Specific Embryonic Antigen-1 (SSEA-1), an antigenic epitope defined as a Lewis X carbohydrate structure, is expressed during early mouse embryogenesis on murine embryonal carcinoma cells (EC), murine embryonic stem cells (ES), and murine and human germ cells. Expression of SSEA-1 is down regulated following differentiation of murine EC and ES cells. In contrast, the differentiation of human EC and ES cells is accompanied by an increase in SSEA-1 expression.^{1,2}

References

1. Solter, D. & Knowles, B.B. (1978) Proc. Natl. Acad. Sci. USA **75**:5565.
2. Fox, N. *et al.* (1983) Cancer Res. **43**:669.

Immunocytochemistry Validation

This antibody has been tested for immunocytochemistry using D3 cells. Cells were fixed in PBS containing 4% paraformaldehyde, and blocked with PBS containing 10% normal donkey serum, 0.1% Triton® X-100, and 1% BSA. After blocking, cells were incubated with NL557-conjugated antibody at a final concentration of 1X (1:10 dilution) in blocking buffer for 3 hours in the dark. Between each step, cells were washed with PBS containing BSA. If a staining volume of 250 μ L is used, this kit can be used for 20 tests; 100 tests can be done in a staining volume of 50 μ L.

Warning: Contains sodium azide as a preservative - sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large volumes of water during disposal.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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