DESCRIPTION

Species Reactivity Human/Mouse
Specificity Recognizes a carbohydrate epitope of SSEA-4 (1, 2).
Source Monoclonal Mouse IgG3 Clone # MC-813-70
Purification Protein A or G purified from hybridoma culture supernatant
Immunogen 2120Ep human embryonal carcinoma cell line
Formulation Lyophilized from a 0.2 μm filtered solution in MES with Trehalose. See Certificate of Analysis for details.
*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
<td>0.25 μg/10^6 cells</td>
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<tr>
<td>Immunocytochemistry</td>
<td>8-25 μg/mL</td>
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DATA

Flow Cytometry

Detection of SSEA-4 in NTERA-2 Human Cell Line by Flow Cytometry. NTERA-2 human testicular embryonic carcinoma cell line was stained with Mouse Anti-Human/Mouse SSEA-4 Monoclonal Antibody (Catalog # MAB1435, filled histogram) or isotype control antibody (Catalog # MAB007, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).

Immunocytochemistry

SSEA-4 in BG01V Human Stem Cells. SSEA-4 was detected in immersion fixed BG01V human embryonic stem cells cultured on irradiated mouse embryonic fibroblasts (Catalog # PSC001) using 10 μg/mL Mouse Anti-Human/Mouse SSEA-4 Monoclonal Antibody (Catalog # MAB1435) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.
Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SSEA-4 is expressed on the surface of human embryonal carcinoma (EC) cells (the pluripotent stem cells of teratocarcinomas), human embryonic germ cells (EG), and human embryonic stem cells (ES). Expression of SSEA-4 is down-regulated following differentiation of human EC cells. In contrast, the differentiation of murine EC and ES cells may be accompanied by an increase in SSEA-4 expression (1-4).

References: