

DESCRIPTION

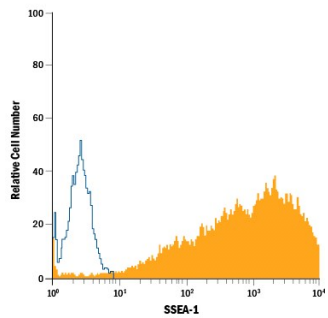
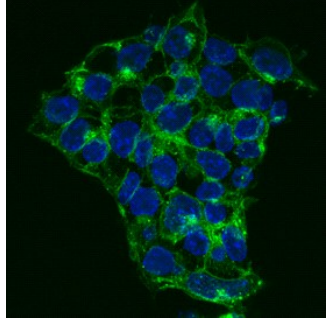
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|---------------------------|--|
| Species Reactivity | Human/Mouse |
| Specificity | Detects human and mouse SSEA-1. |
| Source | Monoclonal Mouse IgM Clone # MC-480 |
| Purification | IgM-specific Affinity-purified from hybridoma culture supernatant |
| Immunogen | F9 mouse teratocarcinoma stem cells |
| Conjugate | Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm |
| Formulation | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

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.

| | Recommended Concentration | Sample |
|----------------------------|----------------------------|-----------|
| Flow Cytometry | 5 µL/10 ⁶ cells | See Below |
| Immunocytochemistry | 5-15 µg/mL | See Below |

DATA

| Flow Cytometry | Immunocytochemistry |
|--|---|
|  <p>Detection of SSEA-1 in D3 Mouse Cell Line by Flow Cytometry. D3 mouse embryonic stem cell line was stained with Mouse Anti-Human/Mouse SSEA-1 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB2155G, filled histogram) or isotype control antibody (Catalog # IC015G, open histogram). View our protocol for Staining Membrane-associated Proteins.</p> |  <p>SSEA-1 in D3 Mouse Cell Line. SSEA-1 was detected in immersion fixed D3 mouse embryonic stem cell line using Mouse Anti-Human/Mouse SSEA-1 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB2155G; green) at 10 µg/mL for 3 hours at room temperature. Cells were counterstained with DAPI (blue). Specific staining was localized to cytoplasm and cell surfaces. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.</p> |

PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

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

PRODUCT SPECIFIC NOTICES

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