

DESCRIPTION

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| Species Reactivity | Human/Mouse |
| Specificity | Recognizes a carbohydrate epitope of SSEA-4 (1, 2). |
| Source | Monoclonal Mouse IgG ₃ Clone # MC-813-70 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | 2120Ep human embryonal carcinoma cell line |
| Conjugate | Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm |
| Formulation | Supplied 0.2 mg/mL 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 | 0.25-1 µg/10 ⁶ cells | NTera-2 human testicular embryonic carcinoma cell line |

PREPARATION AND STORAGE

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| 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

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:

1. Shevinsky, L.H. *et al.* (1982) *Cell* **30**:697.
2. Kannagi, R. *et al.* (1983) *EMBO J.* **2**:2355.
3. Thomson, J.A. and J.S. Odorico (2000) *Trends Biotechnol.* **18**:53.
4. Draper, J.S. *et al.* (2002) *J. Anat.* **200**:249.

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