

## DESCRIPTION

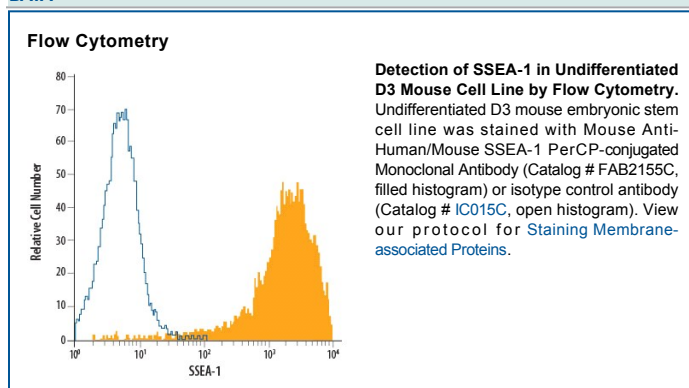
|                           |  |
|---------------------------|--|
| <b>Species Reactivity</b> | Human/Mouse  |
| <b>Specificity</b>        | Detects human and mouse SSEA-1.  |
| <b>Source</b>             | Monoclonal Mouse IgM Clone # MC-480  |
| <b>Purification</b>       | IgM-specific Affinity-purified from hybridoma culture supernatant  |
| <b>Immunogen</b>          | F9 mouse teratocarcinoma stem cells  |
| <b>Conjugate</b>          | PerCP (Peridinin-chlorophyll Protein Complex)<br>Excitation Wavelength: 482 and 564 nm<br>Emission Wavelength: 675 nm  |
| <b>Formulation</b>        | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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.

|                       | <b>Recommended Concentration</b> | <b>Sample</b> |
|-----------------------|----------------------------------|---------------|
| <b>Flow Cytometry</b> | 10 $\mu$ L/10 <sup>6</sup> cells | See Below     |

## DATA



## 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.**

- 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.