Human/Mouse SSEA-4 PerCP-conjugated Antibody

Monoclonal Mouse IgG_3 Clone # MC-813-70

Catalog Number: FAB1435C
100 TESTS, 25 TESTS

DESCRIPTION

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	PerCP (Peridinin-chlorophyll Protein Complex) Excitation Wavelength: 482 and 564 nm Emission Wavelength: 675 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.

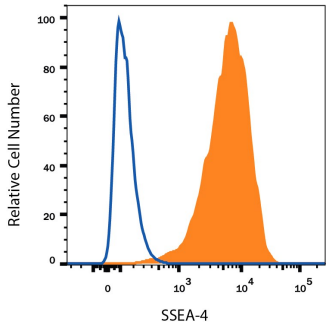
APPLICATIONS

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	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of SSEA-4 in NTera-2 human testicular embryonic carcinoma cell line by Flow Cytometry. NTera-2 human testicular embryonic carcinoma cell line was stained with Mouse Anti-Human/Mouse SSEA-4 PerCP-conjugated Monoclonal Antibody (Catalog # FAB1435C, filled histogram) or isotype control antibody (Catalog # IC007C, open histogram). View our protocol for Staining Membrane-associated Proteins.

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

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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