

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Recognizes a carbohydrate epitope of SSEA-3 (4, 5).
Source	Monoclonal Rat IgM Clone # MC-631
Purification	IgM-specific Affinity-purified from hybridoma culture supernatant
Immunogen	Four to eight cell stage mouse embryos
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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	D3 mouse embryonic stem cell line

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

SSEA-3, also known as glycolipid GB5, is expressed on the surface of human teratocarcinoma stem cells (EC), human embryonic germ cells (EG), and human embryonic stem cells (ES) (1). Expression of SSEA-3 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-3 expression (2, 3).

References:

1. Zhou, D. *et al.* (2000) J. Biol. Chem. **275**:22631.
2. Thomson, J.A. and J.S. Odorico (2000) Trends Biotechnol. **18**:53.
3. Draper, J.S. *et al.* (2002) J. Anat. **200**:249.
4. Shevinsky, L.H. *et al.* (1982) Cell **30**:697.
5. Kannagi, R. *et al.* (1983) EMBO J. **2**:2355.

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