Human/Mouse SSEA-1 Antibody

Monoclonal Mouse IgM Clone # MC-480
Catalog Number: MAB2155

DESCRIPTION

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

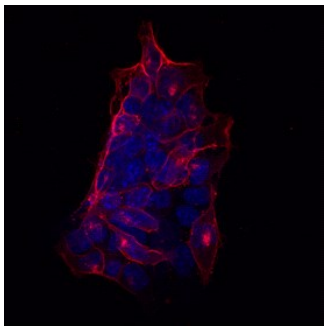
APPLICATIONS

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	2.5 µg/10^6 cells	D3 mouse embryonic stem cell line
Immunocytochemistry	8-25 µg/mL	See Below
Immunoprecipitation	Ballou, B. *et al*. (1979) Science **206**:844.	

DATA

Immunocytochemistry



SSEA-1 in D3 Mouse Cell Line. SSEA-1 was detected in immersion fixed D3 mouse embryonic stem cell line using 10 µg/mL Human/Mouse SSEA-1 Monoclonal Antibody (Catalog # MAB2155) for 3 hours at room temperature. Cells were stained (red) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.