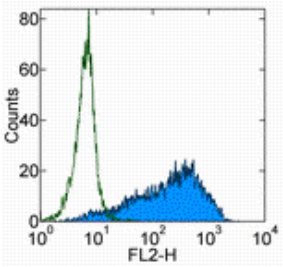
full spectrum cell analysis®
eBioscience®

Anti-Human/Mouse SSEA-1 PE

Catalog Number: 12-8813
Also Known As:stage-specific embryonic antigen-1
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of the F9 cell line with Mouse IgM Isotype Control PE (cat. 12-4752) (open histogram) or Anti-Human/Mouse SSEA-1 PE (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human/Mouse SSEA-1 PE
REF **Catalog Number:** 12-8813
Clone: eBioMC-480 (MC-480)
Concentration: 5 uL (0.125 ug)/test
Host/Isotype: Mouse IgM

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The eBioMC-480 (MC-480) antibody reacts with the stage-specific embryonic antigen-1 (SSEA-1), a carbohydrate epitope expressed upon the surface of early mouse embryos, murine embryonal carcinoma cells (EC), murine embryonic stem cells (ES) and murine & human germ cells (EG). No immunoreactivity is evident with undifferentiated human EC and ES cells. Differentiation of human EC results in an increase in SSEA-1 expression, while in the mouse expression is diminished. Expression of the carbohydrate moiety is also found on mature human granulocytes (on CD15) and some monocytes. SSEA-1 is associated with cell adhesion, migration and differentiation.

Applications Reported

This eBioMC-480 (MC-480) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioMC-480 (MC-480) antibody has been pre-titrated and tested by flow cytometric analysis of the F9 cell line. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Anjos-Afonso F, Bonnet D. Nonhematopoietic/endothelial SSEA-1+ cells define the most primitive progenitors in the adult murine bone marrow mesenchymal compartment. Blood. 2007 Feb 1;109(3):1298-306. (PubMed)

Fenderson BA, De Miguel MP, Pyle AD, Donovan PJ. Staining embryonic stem cells using monoclonal antibodies to stage-specific embryonic antigens. Methods Mol Biol. 2006;325:207-24. (PubMed)

Solter D, Knowles BB. Monoclonal antibody defining a stage-specific mouse embryonic antigen (SSEA-1). Proc Natl Acad Sci U S A. 1978 Nov;75(11):5565-9. (PubMed)

Related Products

12-4752 Mouse IgM Isotype Control PE

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