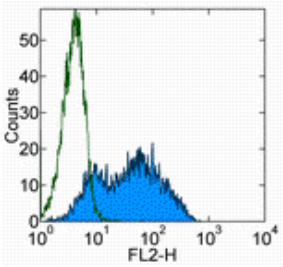
full spectrum cell analysis®
eBioscience®

# Anti-Human/Mouse SSEA-1 Purified

**Catalog Number:** 14-8813
**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 0.25 ug of Mouse IgM Isotype Control Purified (cat. 14-4752) (open histogram) or 0.25 ug Anti-Human/Mouse SSEA-1 Purified (filled histogram) followed by Anti-Mouse IgM PE (cat. 12-5790). Total viable cells were used for analysis.

## Product Information

**Contents:** Anti-Human/Mouse SSEA-1 Purified
REF **Catalog Number:** 14-8813
**Clone:** eBioMC-480 (MC-480)
**Concentration:** 0.5 mg/ml
**Host/Isotype:** Mouse IgM

**Formulation:** aqueous buffer, 0.09% sodium azide, contains carrier protein/stabilizer if necessary
**Temperature Limitation:** Store at 2-8°C.
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. 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, immunoprecipitation, and immunohistochemical staining.

## Applications Tested

This eBioMC-480 (MC-480) antibody has been tested by flow cytometric analysis of the F9 cell line. This can be used at less than or equal to 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## 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

11-4317 Streptavidin FITC
12-4317 Streptavidin PE
12-5790 Anti-Mouse IgM PE (II/41)
14-4752 Mouse IgM Isotype Control Purified
17-4317 Streptavidin APC

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