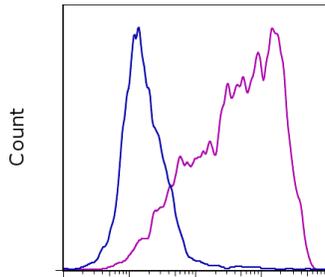


## Anti-Human/Mouse SSEA-1 PerCP-eFluor<sup>®</sup> 710

**Catalog Number:** 46-8813

**Also known as:** stage-specific embryonic antigen-1

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



SSEA-1 PerCP-eFluor 710

Staining of F9 cells with staining buffer (autofluorescence) (blue histogram) or Anti-Human/Mouse SSEA-1 PerCP-eFluor<sup>®</sup> 710 (purple histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human/Mouse SSEA-1 PerCP-eFluor<sup>®</sup> 710

**REF** **Catalog Number:** 46-8813

**Clone:** eBioMC-480 (MC-480)

**Concentration:** 5  $\mu$ L (0.125  $\mu$ g)/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.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium 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 and 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 F9 cells. This can be used at 5  $\mu$ L (0.125  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

PerCP-eFluor<sup>®</sup> 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor<sup>®</sup> 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor<sup>®</sup> 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

### 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)

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## Anti-Human/Mouse SSEA-1 PerCP-eFluor® 710

**Catalog Number:** 46-8813

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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

00-4222 Flow Cytometry Staining Buffer

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