Anti-Human/Mouse SSEA-1 eFluor® 660 (Alexa Fluor® 647 Replacement)

Catalog Number: 50-8813
Also known as: stage-specific embryonic antigen-1
RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human/Mouse SSEA-1 eFluor® 660 (Alexa Fluor® 647 Replacement)
REF **Catalog Number:** 50-8813
Clone: eBioMC-480 (MC-480)
Concentration: 5 uL (0.06 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
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 intracellular staining and flow cytometric analysis of the F9 cell line. This can be used at 5 µL (0.06 ug 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.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

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

50-4752 Mouse IgM Isotype Control eFluor® 660

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