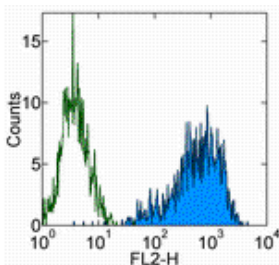


## Anti-Human SSEA-4 PE

**Catalog Number:** 12-8843

**Also Known As:** stage-specific embryonic antigen-4

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



Staining of the 2102Ep cell line with Mouse IgG3 Isotype Control PE (cat. 12-4742) (open histogram) or Anti-Human SSEA-4 PE (filled histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human SSEA-4 PE


**REF** **Catalog Number:** 12-8843

**Clone:** eBioMC-813-70 (MC-813-70)

**Concentration:** 5  $\mu$ L (0.06  $\mu$ g)/test

**Host/Isotype:** Mouse IgG3

**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-813-70 monoclonal antibody reacts with a glycolipid carbohydrate epitope on Stage-specific embryonic antigen-4 (SSEA-4) protein. Expression is found on human teratocarcinoma stem cells (EC), human embryonic germ cells (EG), human induced pluripotent stem (iPS) cells, and human embryonic stem cells (ES) with a decrease in expression upon differentiation. Recently expression has also been found on bone marrow mesenchymal stem cells.

The eBioMC-813-70 antibody has been reported to crossreact to mouse, rabbit, canine, chicken, and Old and New World monkeys.

### Applications Reported

This eBioMC-813-70 (MC-813-70) antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This eBioMC-813-70 (MC-813-70) antibody has been pre-titrated and tested by flow cytometric analysis of the 2102Ep cell line. This can be used at 5  $\mu$ L (0.06  $\mu$ 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.

### References

Williams SA, Stanley P. Complex N-glycans or core 1-derived O-glycans are not required for the expression of stage-specific antigens SSEA-1, SSEA-3, SSEA-4, or Le(Y) in the preimplantation mouse embryo. *Glycoconj J.* 2009 Apr;26(3):335-47. (mouse reactivity)

Müller T, Fleischmann G, Eildermann K, Mätz-Rensing K, Horn PA, Sasaki E, Behr R A novel embryonic stem cell line derived from the common marmoset monkey (*Callithrix jacchus*) exhibiting germ cell-like characteristics. *Hum Reprod.* 2009 Feb 27. (marmoset reactivity)

Shiue YL, Tailiu JJ, Liou JF, Lu HT, Tai C, Shiao JW, Chen LR. Establishment of the long-term in vitro culture system for chicken primordial germ cells. *Reprod Domest Anim.* 2009 Feb;44(1):55-61 (chicken reactivity)

Wilcox JT, Semple E, Gartley C, Brisson BA, Perrault SD, Villagómez DA, Tayade C, Becker S, Lanza R, Betts DH. Characterization of canine embryonic stem cell lines derived from different niche microenvironments. *Stem Cells Dev.* 2009 Jan 9. (canine reactivity)

Müller T, Eildermann K, Dhir R, Schlatt S, Behr R. Glycan stem-cell markers are specifically expressed by spermatogonia in the adult non-human primate testis. *Hum Reprod.* 2008 Oct;23(10):2292-8 (*Callithrix jacchus*, *Macaca mulatta* and *Macaca silenus* crossreactivity)

Gang EJ, Bosnakovski D, Figueiredo CA, Visser JW, Perlingeiro RC. SSEA-4 identifies mesenchymal stem cells from bone marrow. *Blood*. 2007 Feb 15;109(4):1743-51.

Kannagi R, Cochran NA, Ishigami F, Hakomori S, Andrews PW, Knowles BB, Solter D. Stage-specific embryonic antigens (SSEA-3 and -4) are epitopes of a unique globo-series ganglioside isolated from human teratocarcinoma cells. *EMBO J*. 1983;2(12):2355-61.

Krupnick JG, Damjanov I, Damjanov A, Zhu ZM, Fenderson BA. Globo-series carbohydrate antigens are expressed in different forms on human and murine teratocarcinoma-derived cells. *Int J Cancer*. 1994 Dec 1;59(5):692-8.

**Related Products**

12-4742 Mouse IgG3 Isotype Control PE

12-8813 Anti-Human/Mouse SSEA-1 PE (eBioMC-480 (MC-480))

12-8833 Anti-Human/Mouse SSEA-3 PE (eBioMC-631 (MC-631))

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