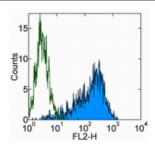


Anti-Human SSEA-4 Purified

Catalog Number: 14-8843

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 0.5 ug of Mouse IgG3 Isotype Control Purified (cat. 14-4742) (open histogram) or 0.5 ug of Anti-Human SSEA-4 Purified (filled histogram) followed by F (ab')2 Anti-Mouse IgG PE (cat. 12-4012). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human SSEA-4 Purified

REF Catalog Number: 14-8843

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

Concentration: 0.5 mg/mL Host/Isotype: Mouse IgG3

Formulation: aqueous buffer, 0.09% sodium azide, contains carrier protein/stabilizer if necessary

Temperature Limitation: Store at 2-8°C.

☐ 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, and immunohistochemical staining.

Applications Tested

This eBioMC-813-70 (MC-813-70) antibody has been tested by flow cytometric analysis of the 2102Ep cell line. This can be used at less than or equal to 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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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 reactvity)

Shiue YL, Tailiu JJ, Liou JF, Lu HT, Tai C, Shiau 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)

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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)

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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

11-4011 Anti-Mouse IgG FITC 12-4317 Streptavidin PE 13-4013 Anti-Mouse IgG Biotin (Polyclonal) 14-4742 Mouse IgG3 Isotype Control Purified

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