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Monoclonal Antibody to SSEA-4 - Alexa Fluor 647

Alternate names: Embryonic Stem Cell Marker, SSEA4, Stage-Specific Embryonic Antigen-4

Catalog No.: AM20368AF6-S

Quantity: 25 Tests

Background: SSEA-4 specific antibody, clone MC-813, is reactive with Stage-Specific Embryonic Antigen-4, a carbohydrate antigen expressed on human teratocarcinoma cells (EC), embryonic stem cells (ES) and embryonic germ cells. It is also expressed on a subset of mesenchymal stem cells, erythrocytes, the erythroleukemic myeloid cell line K562, unfertilized oocytes and early cleaved stage oocytes

Host / Isotype: Mouse / IgG3

Clone: MC-813-70

Immunogen: Human embryonal carcinoma cell line 2102Ep

Format:
State: Liquid purified Ig fraction
Purification: Protein G Chromatography
Buffer System: 0.25 ml PBS containing 0.05% BSA and 0.05% Sodium Azide
Label: Alexa Fluor 647 – Alexa Fluor® 647

Applications:
Flow Cytometry (Cell Surface): 10 µl (0.5 µg)/10e6 cells.
Immunofluorescence/Immunocytochemistry: Reported in literature.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Recognizes SSEA-4.
Cross-reaction with Mouse, Monkey, Chicken, Dog and Rabbit has been reported in publications for clone MC-813-70.

Species Reactivity:
Tested: Human.
Expected from sequence similarity: Chicken, Dog, Mouse, New World Monkey, Rabbit.

Storage: Store the antibody at 2-8°C
DO NOT FREEZE!
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

General Readings:
1. Kannagi, R., et al., EMBO J. 2: 2355 (1983)
2. Gang E.J. et al. Blood. Feb 15;109(4):1743-51 (2007)
3. Henderson, J.K., et al. Stem Cells. 20: 329 (2002)
4. Müller T, et al. Hum Reprod. 2009 Feb 27 (2009)

Pictures:

Cell Surface Flow Cytometric analysis of SSEA-4 on Human 2102Ep cells using 10 µl/10e6 cells of AM20368AF6-S SSEA-4 antibody. Green Histogram represents isotype control. Red Histogram represents SSEA-4 antibody. Cell surface flow kit was used for this test (cells were not fixed for testing).