

Monoclonal Antibody to SSEA-4 - PE

Alternate names:	Embryonic Stem Cell Marker, SSEA4, Stage-Specific Embryonic Antigen-4
Catalog No.:	AM20368RP-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
Recommended Isotype Controls:	AM08210RP-N
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 10mM Tris, 150mM Sodium Chloride containing 0.05% BSA and 0.05% Sodium Azide Label: PE
Applications:	Flow Cytometry (Cell Surface): 10 µl (0.25 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 ul/10e6 cells of AM20368RP-S SSEA-4 antibody. Green Histogram represents isotype control. Red Histogram represents AM20368RP-S SSEA-4 antibody. Cell surface flow kit was used for this test (cells were not fixed for testing).

