

## Monoclonal Antibody to SSEA-4 - Purified

<b>Alternate names:</b>	Embryonic Stem Cell Marker, SSEA4, Stage-Specific Embryonic Antigen-4
<b>Catalog No.:</b>	AM20368PU-S
<b>Quantity:</b>	25 µg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	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.
<b>Host / Isotype:</b>	Mouse / IgG3
<b>Recommended Isotype Controls:</b>	AM03097PU-N
<b>Clone:</b>	MC-813-70
<b>Immunogen:</b>	Human embryonal carcinoma cell line 2102Ep
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Affinity Chromatography <b>Buffer System:</b> PBS containing 0.05% BSA and 0.05% Sodium Azide
<b>Applications:</b>	<b>Flow Cytometry (Cell Surface):</b> 0.1 µg/10e6 cells. <b>Immunohistochemistry on Paraffin:</b> Reported in literature. <b>Western blot:</b> Reported in literature. <b>Immunoprecipitation:</b> Reported in literature. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Recognizes SSEA-4. Cross-reaction with Mouse, Monkey, Chicken, Dog and Rabbit has been reported in publications for clone MC-813-70.
<b>Species Reactivity:</b>	<b>Tested:</b> Human. <b>Expected from sequence similarity:</b> Chicken, Dog, Mouse, New World Monkey, Rabbit.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	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 2102Ep cells using 0.1  $\mu\text{g}/10\text{e}6$  cells of AM20368PU-S. Green histogram represents isotype control Red represents AM20368PU-S SSEA-4 antibody.

