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#4755

## SSEA4 (MC813) Mouse mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

|  |                         |                                   |                         |                                      |
|--|-------------------------|-----------------------------------|-------------------------|--------------------------------------|
| <b>Applications:</b><br>IF-IC, FC-FP, FC-L | <b>Reactivity:</b><br>H | <b>Sensitivity:</b><br>Endogenous | <b>MW (kDa):</b><br>N/A | <b>Source/Isotype:</b><br>Mouse IgG3 |
|--|-------------------------|-----------------------------------|-------------------------|--------------------------------------|

|                                  |  |   |
|----------------------------------|--|---|
| <b>Product Usage Information</b> | <p><b>Application</b></p> <p>Immunofluorescence (Immunocytochemistry)<br/>Flow Cytometry (Fixed/Permeabilized)<br/>Flow Cytometry (Live)</p>   | <p><b>Dilution</b></p> <p>1:100 - 1:400<br/>1:200 - 1:800<br/>1:200 - 1:800</p> |
| <b>Storage</b>                   | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.   |   |
| <b>Specificity/Sensitivity</b>   | SSEA4 (MC813) Mouse mAb detects endogenous levels of SSEA4 antigen.  |   |
| <b>Source / Purification</b>     | Monoclonal antibody is produced by injecting animals with human embryonal carcinoma 2102Ep cl.2A6 cells.   |   |
| <b>Background</b>                | SSEA4 (stage-specific embryonic antigen 4) is a glycolipid carbohydrate epitope expressed on the surface of human teratocarcinoma stem cells, human embryonic germ cells, and human embryonic stem cells (1). Expression of human SSEA4 decreases following differentiation of human embryonal carcinoma cells. Expression of the SSEA4 antigen is absent in murine pluripotent cells, but increases following differentiation (1,2).  |   |
| <b>Background References</b>     | <ol style="list-style-type: none"> <li>Henderson, J.K. et al. (2002) <i>Stem Cells</i> 20, 329-37.</li> <li>Draper, J.S. et al. (2002) <i>J Anat</i> 200, 249-58.</li> </ol>   |   |
| <b>Species Reactivity</b>        | Species reactivity is determined by testing in at least one approved application (e.g., western blot).   |   |
| <b>Applications Key</b>          | <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized) <b>FC-L:</b> Flow Cytometry (Live)   |   |
| <b>Cross-Reactivity Key</b>      | <b>H:</b> Human  |   |
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