

SSEA4 (MC813) Mouse mAb

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

Product Usage Information**Application**

Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)
Flow Cytometry (Live)

Dilution

1:100 - 1:400
1:200 - 1:800
1:200 - 1:800

Storage

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.

Specificity/Sensitivity

SSEA4 (MC813) Mouse mAb detects endogenous levels of SSEA4 antigen.

Source / Purification

Monoclonal antibody is produced by injecting animals with human embryonal carcinoma 2102Ep cl.2A6 cells.

Background

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).

Background References

- Henderson, J.K. et al. (2002) *Stem Cells* 20, 329-37.
- Draper, J.S. et al. (2002) *J Anat* 200, 249-58.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key

H: Human

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