

SSEA3 Monoclonal Antibody (MC-631)

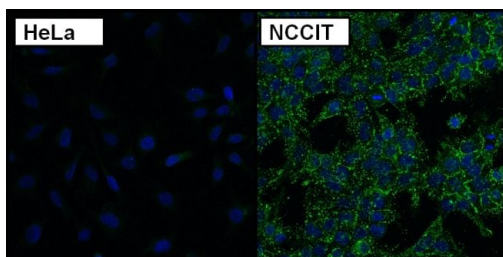
Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotope	Rat / IgM
Class	Monoclonal
Type	Antibody
Clone	MC-631
Conjugate	Unconjugated
Immunogen	Fischer rat immunized with 4-8 cell stage mouse embryos
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography - MBP
Storage buffer	potassium phosphate with 0.15M NaCl, 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2536682

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	1:100	1 Publication
Immunocytochemistry (ICC)	✓	1:100-1:500	
Immunofluorescence (IF)	✓	1:100 - 1:500	

Product Images For SSEA3 Monoclonal Antibody (MC-631)

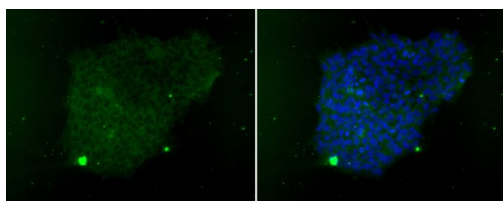
SSEA3 Antibody (MA1-020) in IF

Immunofluorescent analysis of SSEA-3 using anti-SSEA-3 monoclonal antibody (Product # MA1-020) shows expression in human teratocarcinoma NCCIT cells (shown in green) but not in negative control HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with a rat monoclonal antibody recognizing SSEA-3 (Product # MA1-020), at a dilution of 1:50 for at least 1 hour at room temperature. Cells were washed with PBS and incubated with a goat-anti-rat IgM secondary antibody at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan at 20X magnification.



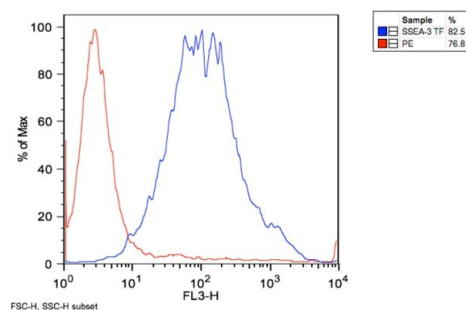
SSEA3 Antibody (MA1-020) in IF

Immunofluorescent analysis of SSEA-3 using anti-SSEA-3 monoclonal antibody (Product # MA1-020) shows staining on the cell surface of human HEL 11.4 iPS cells, indicating pluripotency. SSEA-3 staining (green) and an overlay image of SSEA-3 with DAPI (blue) is shown. HEL 11.4 iPS cells were grown on matrigel coated chamber slides and fixed with formaldehyde prior to staining. Cells were probed with a rat monoclonal antibody recognizing SSEA-3 (Product # MA1-020) at a dilution of 1:20 overnight at 4 °C, washed with PBS and incubated with a fluorescein conjugated secondary antibody at a dilution of 1:100 for 60 minutes at room temperature. Images were taken at 20X magnification.



SSEA3 Antibody (MA1-020) in Flow

Flow cytometry analysis of SSEA-3 using anti-SSEA-3 monoclonal antibody (Product # MA1-020) shows positive staining of H9 human embryonic stem cells (blue line). H9 human embryonic stem cells were harvested, fixed and washed with PBS. Cells were incubated with anti-SSEA-3 monoclonal antibody (Product # MA1-020) or control at a 1:100 dilution for 1 hour on ice, followed by 30 min incubation with fluorescein conjugated secondary antibody. 100,000 cells were stained for each sample.



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Flow Cytometry (1)

Proceedings of the National Academy of Sciences of the United States of America

Stage-specific embryonic antigen-3 (SSEA-3) and 3GalT5 are cancer specific and significant markers for breast cancer stem cells.

"MA1020 was used in flow cytometry to find that breast cancer stem cells isolated with CD44(+)/CD24(-/lo)SSEA-3(+) or ESA(hi)PROCR(hi)SSEA-3(+) markers have higher tumorigenicity than those with conventional markers"

Authors: Cheung SK, Chuang PK, Huang HW, Hwang-Verslues WW, Cho CH, Yang WB, Shen CN, Hsiao M, Hsu TL, Chang CF, Wong CH

Species
Not Applicable

Dilution
Not Cited

Year
2016

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