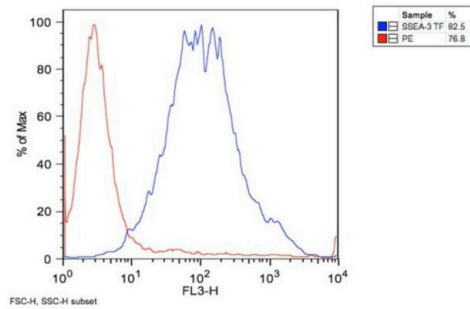


SSEA3 Monoclonal Antibody (MC-631)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Mammal, Deer, Human
Host/Isotype	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	Publications
Immunocytochemistry (ICC/IF)	1:100-1:500	3 Publications
Flow Cytometry (Flow)	1:100	2 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For SSEA3 Monoclonal Antibody (MC-631)

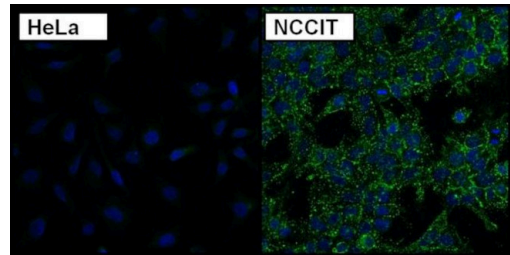


SSEA3 Antibody (MA1-020) in Flow

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 FITC-conjugated secondary antibody. 100,000 cells were stained for each sample.

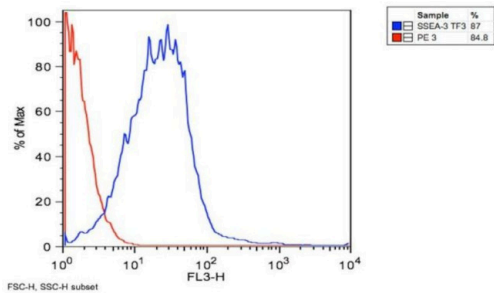
SSEA3 Antibody (MA1-020) in ICC/IF

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 Flow

Flow cytometry analysis of SSEA-3 using anti-SSEA-3 monoclonal antibody (Product # MA1-020) shows positive staining of HEL 11.4 iPS cells (blue line). HEL 11.4 iPS 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 FITC-conjugated secondary antibody. 100,000 cells were stained for each sample.



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Immunocytochemistry (3)

<p>Stem cell research</p> <p>Generation of a human control iPS cell line (ESi080-A) from a donor with no rheumatic diseases.</p> <p>"MA1-020 was used in Immunocytochemistry-immunofluorescence to report the establishment of the human iPS cell line N1-FiPS4F#7 generated from skin cells of a patient with no rheumatic diseases, thus obtaining an appropriate control iPS cell line for researchers working in the field of rheumatic diseases."</p> <p>Authors: Castro-Viñuelas R, Sanjurjo-Rodríguez C, Piñeiro-Ramil M, Rodríguez-Fernández S, Fuentes-Boquete IM, Blanco FJ, Díaz-Prado SM</p>	<p>Year 2020</p> <p>Species Human</p> <p>Dilution 1:500</p>
<p>Cell transplantation</p> <p>Quantitative Analysis of SSEA3+ Cells from Human Umbilical Cord after Magnetic Sorting.</p> <p>"Published figure using SSEA3 monoclonal antibody (Product # MA1-020) in Immunofluorescence"</p> <p>Authors: Leng Z, Sun D, Huang Z, Tadmori I, Chiang N, Kethidi N, Sabra A, Kushida Y, Fu YS, Dezawa M, He X, Young W</p>	<p>Year 2019</p> <p>Species Human</p> <p>Dilution 1:20</p>

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Flow Cytometry (2)

<p>Cell transplantation</p> <p>Quantitative Analysis of SSEA3+ Cells from Human Umbilical Cord after Magnetic Sorting.</p> <p>"Published figure using SSEA3 monoclonal antibody (Product # MA1-020) in Immunofluorescence"</p> <p>Authors: Leng Z, Sun D, Huang Z, Tadmori I, Chiang N, Kethidi N, Sabra A, Kushida Y, Fu YS, Dezawa M, He X, Young W</p>	<p>Year 2019</p> <p>Species Human</p> <p>Dilution 1:20</p>
<p>Proceedings of the National Academy of Sciences of the United States of America</p> <p>Stage-specific embryonic antigen-3 (SSEA-3) and 3GalT5 are cancer specific and significant markers for breast cancer stem cells.</p> <p>"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"</p> <p>Authors: Cheung SK, Chuang PK, Huang HW, Hwang-Verslues WW, Cho CH, Yang WB, Shen CN, Hsiao M, Hsu TL, Chang CF, Wong CH</p>	<p>Year 2016</p>

More applications with references on thermofisher.com

Misc (1)

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