

SSEA4 Monoclonal Antibody (MC-813-70)

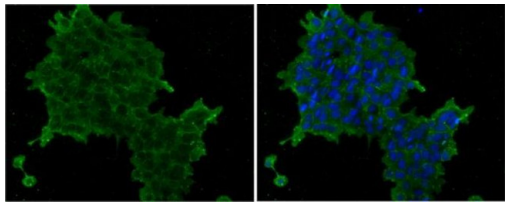
Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Deer, Human
Host/Isotype	Mouse / IgG3
Class	Monoclonal
Type	Antibody
Clone	MC-813-70
Conjugate	Unconjugated
Immunogen	human embryonal carcinoma cell line 2102Ep
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	potassium phosphate with 0.15M NaCl, 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2536687

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	1:100-1:500	13 Publications
Flow Cytometry (Flow)	1:50-1:100	1 Publication
Miscellaneous PubMed (Misc)	-	4 Publications

Product Images For SSEA4 Monoclonal Antibody (MC-813-70)

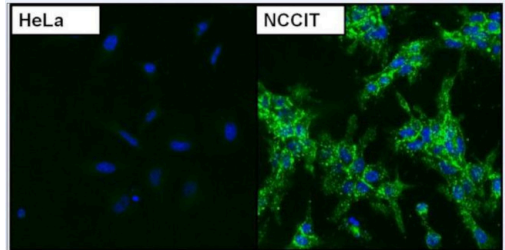
SSEA4 Antibody (MA1-021) in ICC/IF

Immunofluorescent analysis of SSEA-4 using anti-SSEA-4 monoclonal antibody (Product # MA1-021) shows staining on the cell surface of human H9 human embryonic stem cells, indicating pluripotency. SSEA-4 staining (green) and an overlay image of SSEA-4 with DAPI (blue) is shown. H9 human embryonic stem cells were grown on matrigel coated chamber slides and fixed with formaldehyde prior to staining. Cells were probed with a Monoclonal antibody recognizing SSEA-4 (Product # MA1-021) at a dilution of 1:40 overnight at 4 °C, washed with PBS and incubated with a FITC-conjugated secondary antibody at a dilution of 1:100 for 60 minutes at room temperature. Images were taken at 20X magnification.



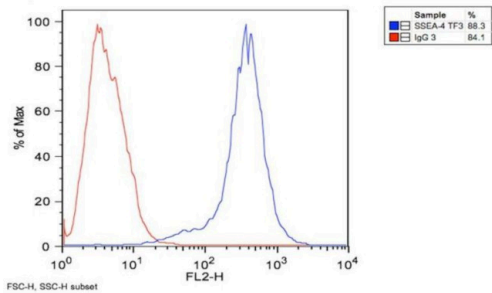
SSEA4 Antibody (MA1-021) in ICC/IF

Immunofluorescent analysis of SSEA4 using anti-SSEA4 monoclonal antibody (Product # MA1-021) 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 mouse monoclonal antibody recognizing SSEA4 (Product # MA1-021), at a dilution of 1:50 for at least 1 hour at room temperature. Cells were washed with PBS and incubated with DyLight 488 goat-anti-mouse secondary antibody (Product # 35503) 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.



SSEA4 Antibody (MA1-021) in Flow

Flow cytometry analysis of SSEA-4 using anti-SSEA-4 monoclonal antibody (Product # MA1-021) 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-4 monoclonal antibody (Product # MA1-021) 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 (13)

<p>Stem cell reports</p> <p>Characterization of N-terminal RYR2 variants outside CPVT1 hotspot regions using patient iPSCs reveal pathogenesis and therapeutic potential.</p> <p>"MA1-021 was used in Immunocytochemistry-immunofluorescence to show that these variants are located at the N-terminal domain and the central domain interface and could destabilize the RYR2 channel promoting Ca²⁺ leak-triggered arrhythmias."</p> <p>Authors: Stutzman MJ,Kim CSJ,Tester DJ,Hamrick SK,Dotzler SM,Giudicessi JR,Miotto MC,Gc JB,Frank J,Marks AR,Ackerman MJ</p>	<p>Year 2022</p> <p>Species Human</p>
<p>Heart rhythm</p> <p>Patient-specific, re-engineered cardiomyocyte model confirms the circumstance-dependent arrhythmia risk associated with the African-specific common SCN5A polymorphism p.S1103Y: Implications for the increased sudden deaths observed in black individuals during the COVID-19 pandemic.</p> <p>"MA1-021 was used in Immunocytochemistry to ascertain the effects of acidosis and hydroxychloroquine (HCQ) on the action potential duration (APD) in a patient-specific induced pluripotent stem cell-derived cardiomyocyte (iPSC-CM) model of p.S1103Y-SCN5A."</p> <p>Authors: Hamrick SK,John Kim CS,Tester DJ,Giudicessi JR,Ackerman MJ</p>	<p>Year 2022</p> <p>Species Human</p>

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Flow Cytometry (1)

<p>Stem cell research</p> <p>Generation of an integration-free induced pluripotent stem cell line (UNC001-A) from blood of a healthy individual.</p> <p>"MA1-021 was used in Immunocytochemistry to investigate molecular disease mechanisms during the early development of the brain vasculature."</p> <p>Authors: Molina SG,Beltran AA,Beltran AS</p>	<p>Year 2020</p> <p>Species Human</p>
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Miscellaneous PubMed (4)

<p>Animal biotechnology</p> <p>Amnion Epithelial Cells of Buffalo (Bubalus Bubalis) Term Placenta Expressed Embryonic Stem Cells Markers and Differentiated into Cells of Neurogenic Lineage In Vitro.</p> <p>"MA1-021X was used in immunocytochemistry to isolate and characterize buffalo amniotic membrane-derived epithelial cells"</p> <p>Authors: Ghosh K,Selokar NL,Gahlawat SK,Kumar D,Kumar P,Yadav PS</p>	<p>Year 2016</p> <p>Dilution 1:500</p>
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