





# SSEA4 Monoclonal Antibody (MC-813-70), DyLight™ 650

Catalog Number MA1-021-D650

Product data sheet

Details		5
Size	100 μL	S
Host/Isotope	Mouse / IgG3	
Class	Monoclonal	F
Туре	Antibody	- 1
Clone	MC-813-70	
Immunogen	human embryonal carcinoma cell line 2102Ep	e
Conjugate	DyLight™ 650	
Form	Liquid	
Concentration	1 mg/mL	
Purification	Protein A	
Storage buffer	PBS with proprietary stabilizer	
Contains	0.02% sodium azide	
Storage Conditions	4° C, do not freeze	

Species Reactivity	
Species reactivity	Human
Tested Applications	Dilution *
Flow Cytometry (Flow)	1:50-1:500

<sup>\*</sup> Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

## Product specific information

MA1-021-D650 has been successfully used in ICC/IF and flow cytometry applications on human samples.

## Background/Target Information

SSEA-4 (Stage-specific embryonic antigen 4) is a cell surface antigen, expressed along with SSEA-3, TRA-1-60 and TRA-1-81 in embryonic stem cells, embryonal carcinoma cells and induced pluripotent stem cells (iPS). In human cells, these surface markers are down-regulated during the differentiation process, while SSEA-1 is absent in undifferentiated human stem cells and upregulated on the cell surface after retinoic acid mediated differentiation. Conversely, in mouse stem cells, SSEA-1 expression decreases with differentiation while SSEA-3 and SSEA-4 expression increase.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

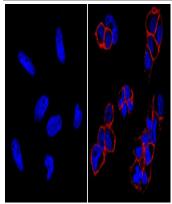
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACE OR REFUND FOR REPLIAD FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR REGIGE/GENCE OF OR BY BUYER, (III) USE of THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIDE, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

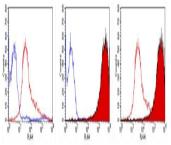


# Product Images For SSEA4 Monoclonal Antibody (MC-813-70), DyLight™ 650



#### SSEA4 Antibody (MA1-021-D650) in ICC/IF

Immunofluorescent analysis of SSEA-4 (red) showing membrane staining of NCCIT cells (right panel) compared to negative HeLa cell control (left panel). The cells were fixed with formalin for 15 minutes, washed, and then blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a DyLight 650-conjugated SSEA-4 monoclonal antibody (Product # MA1-021-D650) in 3% BSA-PBS at a dilution of 1:50 and incubated for 1 hour at 37C in the dark. Nuclei (both panels, blue) were stained with DAPI. Images were taken at 60X magnification.



Cell: NCCIT

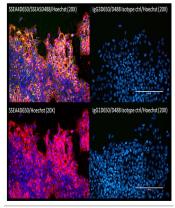
Dilution: 1/100

Cell: Hela-NCCIT overlay

Dilution: 1/100

## SSEA4 Antibody (MA1-021-D650) in Flow

Flow cytometry analysis of SSEA-4 in NCCIT (red filled histogram) and HeLa cells (red unfilled histogram) compared to unstained cells (blue histogram). Positive staining is observed on NCCIT cells when compared to no antibody control (middle panel) and to SSEA-4-negative HeLa cells (right panel). Cells were fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with 2% BSA-PBS for 30 minutes at room temperature and incubated with a DyLight 650-conjugated SSEA-4 monoclonal antibody (Product # MA1-021-D650) in 2% BSA-PBS at a dilution of 1: 100 for 60 minutes at room temperature. Cells were washed and re-suspended in PBS for FACS analysis.



## SSEA4 Antibody (MA1-021-D650) in ICC/IF

Imunofluorescent analysis of SSEA4 (red) in human episomal iPSC cells. Cells were grown on vitronectin coated plates, fixed with 4% paraformaldehyde for 15 minutes, and blocked with 3% Blocker BSA (Product # 37525) for 30 minutes at room temperature. Cells were stained with DyLight 650-conjugated SSEA4 monoclonal antibody (left panels, Product # MA1-021-D650) or DyLight 650-conjugated Mouse IgG3 isotype control antibody (top right panel, Product # MA1-190-D650), at a dilution of 1:50 and incubated for 1 hour at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on an EVOS FL Imaging system at 20X magnification.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT, BUYER SEXCLUSIVE REACTOR FOR NOR-ON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR OR REFUND FOR OR REFUND FOR OR REFUND FOR PRODUCTS. IN EAST THE REVOLUTION TO FROM REPLACE OR REFUND FOR PRODUCTS. AS THE RESYLUTION, DISASTER OR EVENT OF FORCE MALEYER, (IM) MUSICS, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unachidatives commentation accompanying the Product is intended for research only and is not to be used for any other purpose, including without limitation, unachidatives commentation accompanying the Product is intended for research only and is not to be used production to the unamentation accompanying the Product is intended for research only and is not to be used production to the unamentation accompanying the Product is intended for research only and is not to be used production to the unamentation accompanying the Product is intended for research on the product of any other purpose, including without initiation, unamentation accompanying the Product is intended for research on the product of the purpose of the Product of the PRODUCTS.

