SSEA4 Monoclonal Antibody (MC-813-70), DyLight™ 488

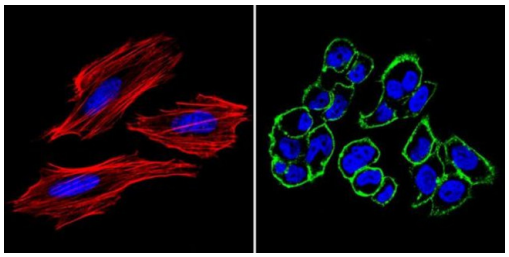
Product Details	
Size	100 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG3
Class	Monoclonal
Type	Antibody
Clone	MC-813-70
Conjugate	DyLight™ 488
Excitation/Emission Max	492/519 nm
Immunogen	human embryonal carcinoma cell line 2102Ep
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with proprietary stabilizer
Contains	0.02% sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_2536688

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:50-1:500	1 Publication
Flow Cytometry (Flow)	1:50-1:500	-

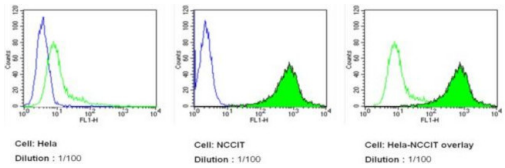
Product Specific Information

MA1-021-D488 has been successfully used in ICC/IF and flow cytometry applications on human samples.

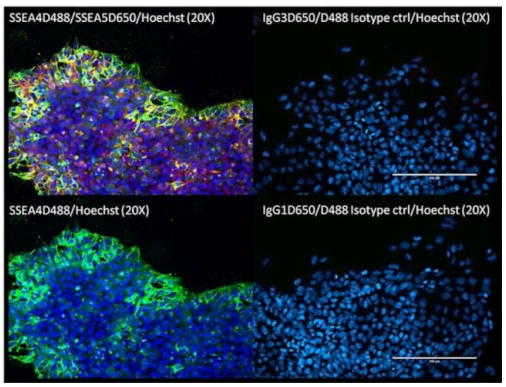
Product Images For SSEA4 Monoclonal Antibody (MC-813-70), DyLight™ 488



SSEA4 Antibody (MA1-021-D488) in ICC/IF
Immunofluorescent analysis of SSEA-4 (green) 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 488-conjugated SSEA-4 monoclonal antibody (Product # MA1-021-D488) in 3% BSA-PBS at a dilution of 1:150 and incubated for 1 hour at 37C in the dark. F-Actin (left panel, red) was stained with DyLight 554 Phalloidin (Product # 21834) and nuclei (both panels, blue) were stained with DAPI. Images were taken at 60X magnification.



SSEA4 Antibody (MA1-021-D488) in Flow
Flow cytometry analysis of SSEA-4 in NCCIT (green filled histogram) and HeLa cells (green 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 488-conjugated SSEA-4 monoclonal antibody (Product # MA1-021-D488) 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-D488) in ICC/IF
Imunofluorescent analysis of SSEA4 (green) 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 488-conjugated SSEA4 monoclonal antibody (left panels, Product # MA1-021-D488) or DyLight 488-conjugated Mouse IgG3 isotype control antibody (top right panel, Product # MA1-190-D488), 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.

View more figures on thermofisher.cn

2 References

Immunohistochemistry (1)

Developmental cell

FACT Sets a Barrier for Cell Fate Reprogramming in Caenorhabditis elegans and Human Cells.

"Published figure using SSEA4 monoclonal antibody (Product # MA1-021-D488) in Immunofluorescence"

Authors: Kolundzic E,Ofenbauer A,Bulut SI,Uyar B,Baytek G,Sommermeier A,Seelk S,He M,Hirsekorn A,Vucicevic D, Akalin A,Diecke S,Lacadie SA,Tursun B

Year
2018

Immunocytochemistry (1)

Nature communications

An integrative proteomics method identifies a regulator of translation during stem cell maintenance and differentiation.

"MA1-021-D488 was used in Immunocytochemistry to uncover a molecular basis for the uncoupling of robust transcription from parsimonious translation in stem cells and propose a method for maintaining pluripotency in vitro."

Authors: Sabatier P,Beusch CM,Saei AA,Aoun M,Moruzzi N,Coelho A,Leijten N,Nordenskjöld M,Micke P,Maltseva D, Tonevitsky AG,Millischer V,Carlos Villaescusa J,Kadekar S,Gaetani M,Altynbekova K,Kel A,Berggren PO,Simonson O, Grinnemo KH,Holmdahl R,Rodin S,Zubarev RA

Year
2021

Species
Human

Dilution
1:200