SSEA1 Monoclonal Antibody (MC-480), DyLight™ 488

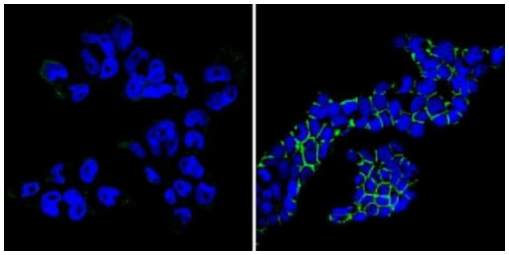
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	MC-480
Conjugate	DyLight™ 488
Excitation/Emission Max	492/519 nm
Immunogen	BALB/c mouse immunized with F9 teratocarcinoma stem cells (X-irradiated).
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography - MBP
Storage buffer	PBS with proprietary stabilizer
Contains	0.02% sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_2536694

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	1:20-1:200	1 Publication
Flow Cytometry (Flow)	1:50-1:500	1 Publication

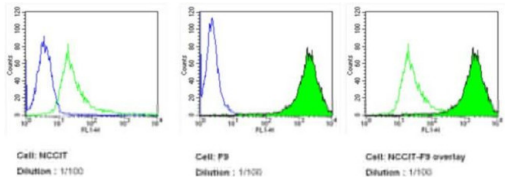
Product Specific Information

MA1-022-D488 has been successfully used in ICC/IF and flow cytometry applications on mouse and human samples.

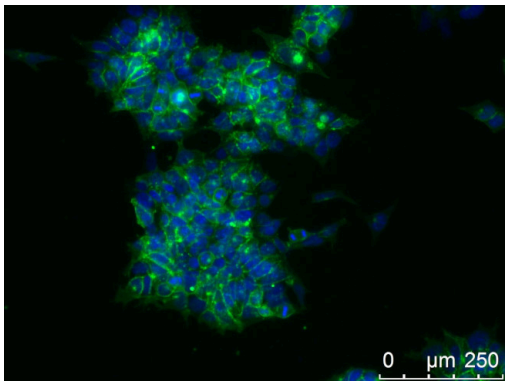
Product Images For SSEA1 Monoclonal Antibody (MC-480), DyLight™ 488



SSEA1 Antibody (MA1-022-D488) in ICC/IF
Immunofluorescent analysis of SSEA-1 (green) showing membrane staining of F9 cells (right panel) compared to negative undifferentiated NCCIT control cells (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-1 monoclonal antibody (Product # MA1-022-D488) in 3% BSA-PBS at a dilution of 1:20 and incubated for 1 hour at 37C in the dark. Nuclei (both panels, blue) were stained with DAPI. Images were taken at 60X magnification.



SSEA1 Antibody (MA1-022-D488) in Flow
Flow cytometry analysis of SSEA-1 in F9 (green filled histogram) and NCCIT cells (green unfilled histogram) compared to unstained cells (blue histogram). Positive staining is observed on F9 cells when compared to no antibody control (middle panel) and to SSEA-1-negative undifferentiated NCCIT 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-1 monoclonal antibody (Product # MA1-022-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.



SSEA1 Antibody (MA1-022-D488) in ICC/IF
Immunofluorescent analysis of SSEA1 (green) in mouse embryonic CJ7 stem cells grown on 0.1% gelatin. The cells were fixed with 4% paraformaldehyde at room temperature for 10 min and permeabilized with 0.25% Triton-X 100 for 5 min and blocked with the 10% BSA in PBS for 30 min at 37°C. Cells were stained with a DyLight 488 conjugated SSEA1 monoclonal antibody (Product # MA1-022-D488) at a dilution of 1:200 in 3% BSA/PBS blocking buffer overnight at 4°C. Nucleus DNA (blue) was stained with DAPI (Product # D1306).

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2 References

Immunocytochemistry (1)

Life science alliance

BMAL1 coordinates energy metabolism and differentiation of pluripotent stem cells.

"MA1-022-D488 was used in Immunocytochemistry-immunoflourescence to highlight the important role that BMAL1 plays at the exit of pluripotency in vitro and provide evidence implicating a non-canonical circadian function of BMAL1 in the metabolic control for cell fate determination."

Authors: Ameneiro C,Moreira T,Fuentes-Iglesias A,Coego A,Garcia-Outeiral V,Escudero A,Torrecilla D,Mulero-Navarro S,Carvajal-Gonzalez JM,Guallar D,Fidalgo M

Year
2020

Species
Human

Dilution
1:1000

Flow Cytometry (1)

Cell stem cell

ADAR1-Dependent RNA Editing Promotes MET and iPSC Reprogramming by Alleviating ER Stress.

"MA1-022-D488 was used in Flow cytometry/Cell sorting to study the functional roles of ADAR1 in somatic cell reprogramming and cell fate transitions."

Authors: Guallar D,Fuentes-Iglesias A,Souto Y,Ameneiro C,Freire-Agulleiro O,Pardavila JA,Escudero A,Garcia-Outeiral V,Moreira T,Saenz C,Xiong H,Liu D,Xiao S,Hou Y,Wu K,Torrecilla D,Hartner JC,Blanco MG,Lee LJ,López M,Walkley CR,Wang J,Fidalgo M

Year
2020

Species
Mouse