

# SSEA1 Monoclonal Antibody (eBioMC-480 (MC-480)), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	eBioMC-480 (MC-480)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_657617

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.5 µg/test	15 Publications
Immunoprecipitation (IP)	Assay-Dependent	-

## Product Specific Information

**Description:** The eBioMC-480 (MC-480) antibody reacts with the stage-specific embryonic antigen-1 (SSEA-1), a carbohydrate epitope expressed upon the surface of early mouse embryos, murine embryonal carcinoma cells (EC), murine embryonic stem cells (ES) and murine and human germ cells (EG). No immunoreactivity is evident with undifferentiated human EC and ES cells. Differentiation of human EC results in an increase in SSEA-1 expression, while in the mouse expression is diminished. Expression of the carbohydrate moiety is also found on mature human granulocytes (on CD15) and some monocytes. SSEA-1 is associated with cell adhesion, migration and differentiation.

**Applications Reported:** This eBioMC-480 (MC-480) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining.

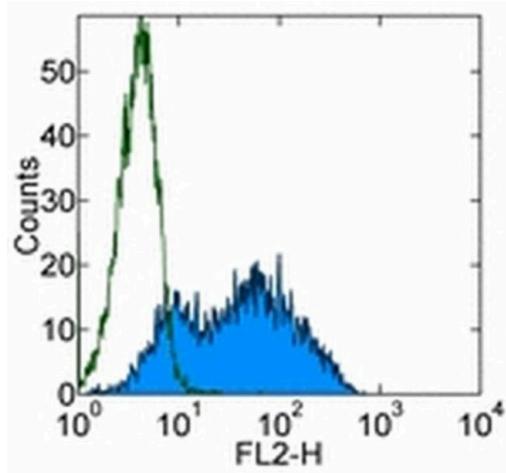
**Applications Tested:** This eBioMC-480 (MC-480) antibody has been tested by flow cytometric analysis of the F9 cell line. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For SSEA1 Monoclonal Antibody (eBioMC-480 (MC-480)), eBioscience™



### SSEA1 Antibody (14-8813-82) in Flow

Staining of the F9 cell line with 0.25 µg of Mouse IgM Isotype Control Purified (Product # 14-4752-82) (open histogram) or 0.25 µg Anti-Human/Mouse SSEA-1 Purified (filled histogram) followed by Anti-Mouse IgM PE (Product # 12-5790-82). Total viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

## 27 References

### Immunohistochemistry (4)

#### Scientific reports

#### The transcriptomes of novel marmoset monkey embryonic stem cell lines reflect distinct genomic features.

"Published figure using SSEA1 monoclonal antibody (Product # 14-8813-82) in Immunohistochemistry"

Authors: Debowski K, Drummer C, Lentjes J, Cors M, Dressel R, Lingner T, Salinas-Riester G, Fuchs S, Sasaki E, Behr R

Year  
2016

#### Cell stem cell

#### Injury induces direct lineage segregation of functionally distinct airway basal stem/progenitor cell subpopulations.

"Published figure using SSEA1 monoclonal antibody (Product # 14-8813-82) in Immunofluorescence"

Authors: Pardo-Saganta A, Law BM, Tata PR, Villoria J, Saez B, Mou H, Zhao R, Rajagopal J

Year  
2015

[View more IHC references on thermofisher.com](#)

### Immunohistochemistry (Frozen) (1)

#### Nature

#### Parent stem cells can serve as niches for their daughter cells.

"Published figure using SSEA1 monoclonal antibody (Product # 14-8813-82) in Immunocytochemistry"

Authors: Pardo-Saganta A, Tata PR, Law BM, Saez B, Chow RD, Prabhu M, Gridley T, Rajagopal J

Year  
2015

Species  
Mouse

### Immunocytochemistry (7)

#### Cell research

#### A vital sugar code for ricin toxicity.

"Published figure using SSEA1 monoclonal antibody (Product # 14-8813-82) in Flow Cytometry"

Authors: Taubenschmid J, Stadlmann J, Jost M, Klok TI, Rillahan CD, Leibbrandt A, Mechtler K, Paulson JC, Jude J, Zuber J, Sandvig K, Elling U, Marquardt T, Thiel C, Koerner C, Penninger JM

Year  
2017

[View more ICC/IF references on thermofisher.com](#)

### More applications with references on thermofisher.com

## Flow (15)

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