

SSEA3 Monoclonal Antibody (eBioMC-631 (MC-631)), eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Rat / IgM
Class	Monoclonal
Type	Antibody
Clone	eBioMC-631 (MC-631)
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_657839

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	Assay-Dependent	-
Flow Cytometry (Flow)	0.5 µg/test	4 Publications
Miscellaneous PubMed (Misc)	-	3 Publications

Product Specific Information

Description: The eBioMC-631 (MC-631) monoclonal antibody reacts with the carbohydrate moiety galactosylgloboside on Stage-specific embryonic antigen-3 (SSEA-3). Expression is restricted to the surface of human teratocarcinoma stem cells (EC), human embryonic germ cells (EG) and human embryonic stem cells (ES) and down regulated following differentiation.

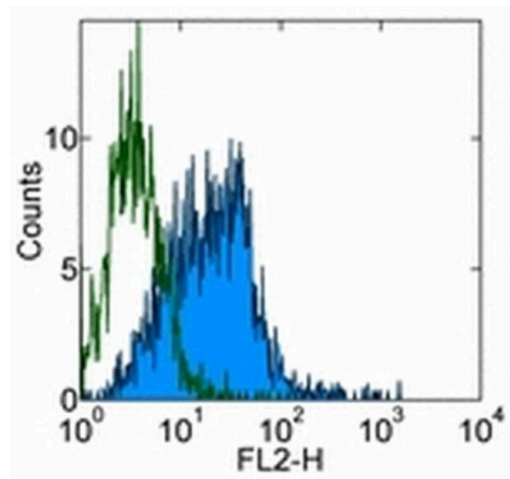
Applications Reported: This eBioMC-631 (MC-631) antibody has been reported for use in flow cytometric analysis, immunohistochemical staining, and immunocytochemistry.

Applications Tested: This eBioMC-631 (MC-631) antibody has been tested by flow cytometric analysis of the 2102Ep 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 10⁵ to 10⁸ 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.



SSEA3 Antibody (14-8833-80) in Flow

Staining of the 2102Ep cell line with 0.5 µg of Rat IgM, K Isotype Control Purified (Product # 14-4341-82) (open histogram) or 0.5 µg of Anti-Human/Mouse SSEA-3 Purified (filled histogram) followed by Anti-Rat IgM PE (Product # 12-0990-82). Total viable cells were used for analysis.

Flow Cytometry (4)

<p>Methods in molecular biology (Clifton, N.J.)</p> <p>In Vitro Modeling of Alcohol-Induced Liver Injury Using Human-Induced Pluripotent Stem Cells.</p> <p>"14-8833 was used in Flow cytometry/Cell sorting to study the effects of alcohol exposure on multistage hepatic cells to model the early stages of liver tissue injury associated with alcoholic liver disease."</p> <p>Authors: Tian L,Prasad N,Jang YY</p>	<p>Year 2016</p> <p>Species Human</p> <p>Dilution 1:100</p>
<p>Stem cells (Dayton, Ohio)</p> <p>ST8SIA4-Dependent Polysialylation is Part of a Developmental Program Required for Germ Layer Formation from Human Pluripotent Stem Cells.</p> <p>"Published figure using SSEA3 monoclonal antibody (Product # 14-8833-80) in Flow Cytometry"</p> <p>Authors: Berger RP,Sun YH,Kulik M,Lee JK,Nairn AV,Moremen KW,Pierce M,Dalton S</p>	<p>Year 2016</p>

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Miscellaneous PubMed (3)

<p>Glycobiology</p> <p>Comparison of the glycosphingolipids of human-induced pluripotent stem cells and human embryonic stem cells.</p> <p>"14-8833 was used in Binding experiments to define the cell-surface carbohydrate antigen profile of human induced pluripotent stem cells relative to human embryonic stem cells."</p> <p>Authors: Säljö K,Barone A,Vizlin-Hodzic D,Johansson BR,Breimer ME,Funa K,Teneberg S</p>	<p>Year 2017</p> <p>Species Human</p> <p>Dilution 1:50</p>
<p>Glycoconjugate journal</p> <p>Characterization of moose intestinal glycosphingolipids.</p> <p>"14-8833 was used in Affinity chromatography to isolate and identify glycolipids from three small intestines and one large intestine of the moose."</p> <p>Authors: Johansson MM,Dedic B,Lundholm K,Branzell FB,Barone A,Benklander J,Teneberg S</p>	<p>Year 2015</p>

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