

## Antibodies

### Anti-Mouse SSEA-1 (CD15) Antibody, Clone MC-480, Alexa Fluor® 488

Mouse monoclonal IgM antibody  
against human, mouse, rat SSEA-1  
(CD15), Alexa Fluor® 488-conjugated

Catalog #60060AD  
#60060AD.1

100 Tests 5 µL/test  
25 Tests 5 µL/test



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## Product Description

The MC-480 antibody reacts with a terminal carbohydrate epitope, stage-specific embryonic antigen-1 (SSEA-1), which is expressed on a large-molecular-mass (> 200 kDa) glycoprotein on the surface of early mouse embryos, mouse embryonal carcinoma (EC), embryonic stem (ES) cells and mouse and human embryonic germ (EG) cells. SSEA-1 is not expressed on undifferentiated human EC, ES or induced pluripotent stem (iPS) cells, or rhesus monkey ES cell lines. Its expression on mouse ES cells is decreased upon differentiation, whereas in humans, expression is upregulated during differentiation. SSEA-1 is also found on adult human granulocytes and monocytes, where it is denoted CD15, and the MC-480 antibody recognizes the CD15 marker on these cell types. It has been reported that SSEA-1 has roles in cell adhesion and migration, and regulation of cell differentiation.

Target Antigen Name:	SSEA-1 (CD15)
Alternative Names:	3-FAL, CD15, Lewis X, SSEA1, Stage-specific embryonic antigen 1, X-hapten
Gene ID:	14345
Species Reactivity:	Human, Mouse, Rat
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	MC-480
Isotype:	IgM, kappa
Immunogen:	Mouse F9 teratocarcinoma cells (X-irradiated)
Conjugate:	Alexa Fluor® 488

## Applications

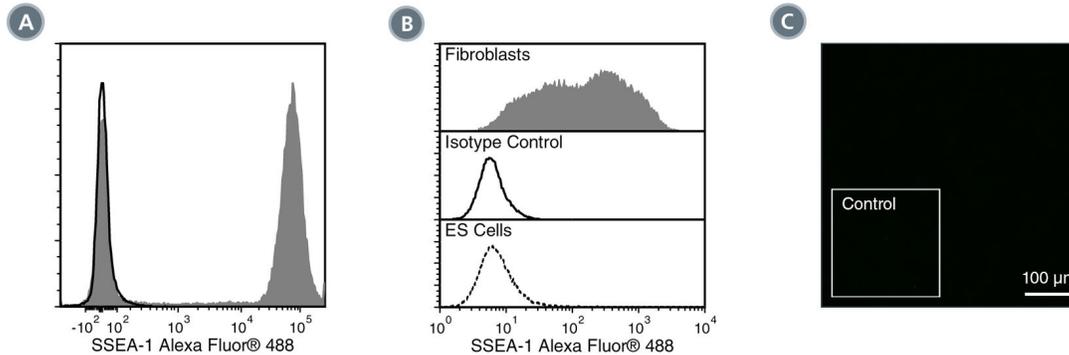
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for labeling human ES and iPS cells grown in TeSR™-E8™ (Catalog #05940), mTeSR™1 (Catalog #85850) and TeSR™2 (Catalog #05860).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin
Purification:	The antibody was conjugated with Alexa Fluor® 488 under optimal conditions, and is at > 85% purity. The solution is free of unconjugated Alexa Fluor® 488.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	The suggested use of this antibody is: FC, 5 µL per 1 x 10 <sup>6</sup> cells in 100 µL or per 100 µL of whole blood; ICC/IF, 100X dilution. It is recommended that the antibody be titrated for optimal performance for each application.

## Data



(A) Flow cytometry analysis of human whole blood nucleated cells labeled with Anti-Human SSEA-1 (CD15) Antibody, Clone MC-480, Alexa Fluor® 488 (filled histogram) or Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, Alexa Fluor® 488 (Catalog #60069AD) (solid line histogram). SSEA-1 is highly expressed on granulocytes.

(B) Flow cytometry analysis of human HT1080 fibrosarcoma cells labeled with Anti-Human SSEA-1 (CD15) Antibody, Clone MC-480, Alexa Fluor® 488 (filled histogram). Labeling of human HT1080 fibrosarcoma (solid line histogram) or ES cells (negative control; dashed line histogram) with a mouse IgM, kappa isotype control antibody (Anti-Human TRA-1-60 Antibody, Clone TRA-1-60R, Alexa Fluor® 488; Catalog #60064AD) is shown. SSEA-1 is not expressed on undifferentiated human ES cells.

(C) Human ES cells were cultured in mTeSR™1 on Corning® Matrigel®-coated glass slides, then fixed and labeled with Anti-Human SSEA-1 (CD15) Antibody, Clone MC-480, Alexa Fluor® 488. Inset shows cells labeled with Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, Alexa Fluor® 488.

## Related Products

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