

## Alexa Fluor® 488 anti-mouse/human CD15 (SSEA-1)

**Catalog # / Size:** 125609 / 25 tests  
125610 / 100 tests

**Clone:** MC-480

**Isotype:** Mouse IgM,  $\kappa$

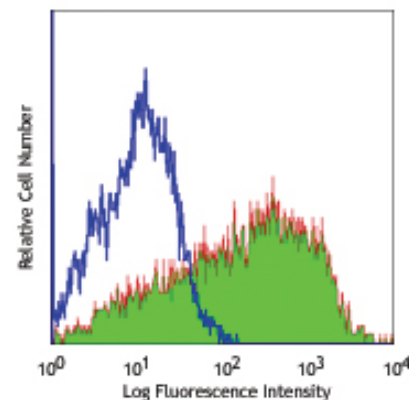
**Immunogen:** Mouse F9 Teratocarcinoma Stem Cells (X-irradiated)

**Reactivity:** Mouse, **Cross-Reactivity:** Human

**Preparation:** 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.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



*F9 (mouse embryonic carcinoma cell line) stained with MC-480 Alexa Fluor® 488*

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5  $\mu$ l per million cells or 5  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

\*\* Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1</sup>, Western blotting<sup>1</sup>, and immunohistochemistry<sup>1</sup> of acetone-fixed frozen tissue sections and formalin-fixed paraffin-embedded sections.

**Application References:** 1. Solter D and Knowles BB. 1978. *Proc. Natl. Acad. Sci. USA.* 75:5565. (IHC, IP, WB)

**Description:** The MC-480 antibody reacts with mouse and human Stage-Specific Embryonic Antigen-1 (SSEA-1). It is a Lewis blood group related carbohydrate antigen, also known as X-hapten, Lewis X, 3-FAL, 3-fucosyl-N-acetylactosamine, or CD15. The expression pattern of SSEA-1 antigen is different in humans than in mice. In mice, SSEA-1 is expressed on embryonic stem cells (ES), embryonal carcinoma cells (EC), 8-cell to blastocyst embryos, and a subset of embryonic inner cell mass. The expression on murine ES cells is decreased upon differentiation. In humans, however, SSEA-1 is not found on undifferentiated ES cells, but its expression is upregulated along with differentiation. CD15 is highly expressed on adult human granulocytes. It has been reported that SSEA-1 plays a role in cell adhesion and regulation of cell differentiation.

**Antigen References:** 1. Solter D and Knowles BB. 1978. *Proc. Natl. Acad. Sci. USA.* 75:5565.  
2. Harris JF, *et al.* 1984. *J. Immunol.* 132:2502.  
3. Gooi HC, *et al.* 1981. *Nature* 292:156.  
4. Cui L, *et al.* 2004. *J. Histochem. Cytochem.* 52:1447.

### Related Products:

Product	Clone	Application
Alexa Fluor® 488 Mouse IgM, $\kappa$ Isotype Ctrl	MM-30	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC



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