

Biotin anti-mouse/human CD15 (SSEA-1)

Catalog # / Size: 125603 / 25 µg
125604 / 100 µg

Clone: MC-480

Isotype: Mouse IgM, κ

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

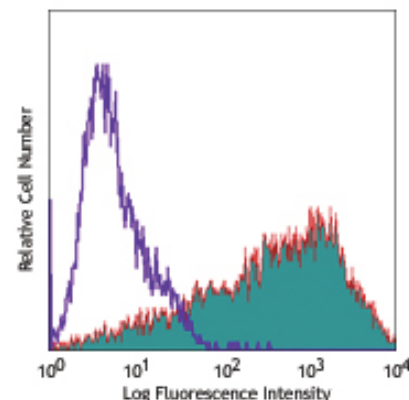
Reactivity: Mouse, **Cross-Reactivity:** Human

Preparation: The antibody was purified by biotin under optimal conditions, and is at >85% purity. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



F9 (mouse embryonic carcinoma cell line) stained with biotinylated MC-480, followed by Sav-PE

Applications:

Applications: FC - *Quality tested*
IP, IHC, - Reported in the literature

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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation¹, Western blotting¹, and immunohistochemistry¹ 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-acetyllactosamine, 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
	Biotin Mouse IgM, κ 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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