



Product Specification Sheet

Product Name	Stemgent® DyLight™ 488 Goat anti-Mouse IgG + IgM Antibody
Description	Stemgent® DyLight™ 488 Goat anti-Mouse IgG + IgM Antibody was screened on mouse and/or human stem cells using immunocytochemistry (ICC) and flow cytometry (FC), and selected as the best application-verified secondary antibody for stem cell research applications. This polyclonal goat anti-mouse IgG + IgM antibody reacts with mouse IgG, IgM, and the light chains of other mouse immunoglobulins. Cross reactivity against non-immunoglobulin serum proteins has not been detected. The Stemgent® DyLight™ 488 Goat anti-Mouse IgG + IgM Antibody has been tested by ELISA and/or solid-phase absorption to ensure minimal cross-reactivity with human, bovine, and horse immunoglobulins. However, it may cross-react with immunoglobulins from other species.
Catalog Number	09-0033
Lot Number	1262
Reactivity	Mouse
Clone	Polyclonal
Isotype	Goat IgG
Size	100µg (0.5 mg/ml)
Formulation	Phosphate-buffered solution pH 7.2 containing ≤0.09% sodium azide
Fluorophore	The DyLight™ 488 is spectrally similar to Alexa Fluor® 488, fluorescein, and FITC. The excitation maximum is 493 nm. The emission maximum is 518 nm.
Preparation	This antibody was purified by affinity chromatography and conjugated with DyLight™ under optimal conditions. It is free of unconjugated DyLight™ and unlabeled antibody.
Storage	Store undiluted at 4°C and protected from light. Do not freeze.
Stability	Stable for 6 months from date of receipt when stored as directed.
Quality Control	Tested by immunocytochemistry (Figure 1) and flow cytometry (Figures 2 & 3).
Recommended Usage	Dilute 1:100 for immunocytochemistry and 1:20 for flow cytometry. For general protocols for performing immunocytochemistry and flow cytometry directly on stem cells, see Technical Documents on the Stemgent® DyLight™ 488 Goat anti-Mouse IgG + IgM Antibody product page at www.stemgent.com/cat#09-0033 .

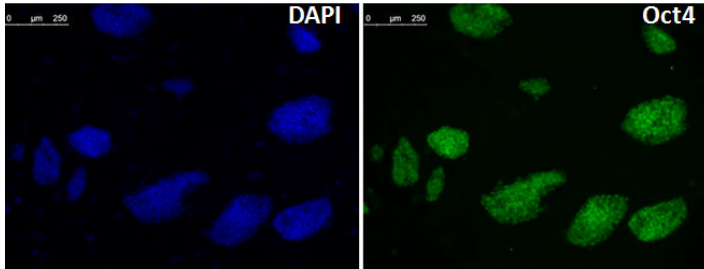


Figure 1—ICC analysis of mouse/human Oct4. Mouse ES cell line R1 was fixed and expression of Oct4 was examined using Purified Mouse anti-Mouse/Human Oct4 Antibody followed by Stemgent® DyLight™ 488 Goat anti-Mouse IgG + IgM Antibody (Cat. No. 09-0033, green color). DAPI staining was used to visualize nuclei (blue color).

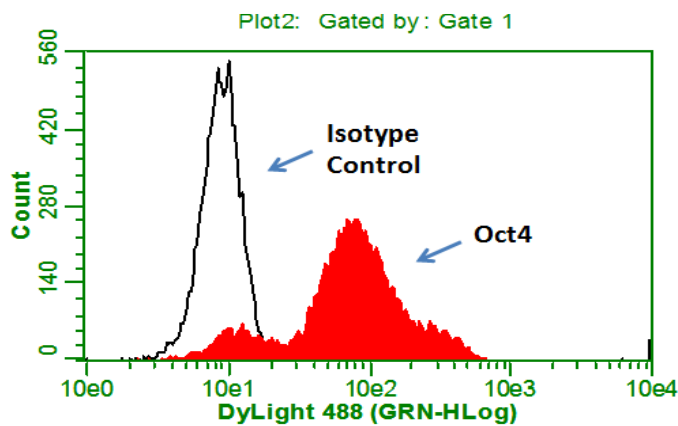


Figure 2—FC analysis of mouse/human Oct4 (mouse IgG2b, intracellular marker). The human ES cell line H1 (grown on feeder cells) was stained with Stemgent® Purified Mouse anti-Mouse/Human Oct4 Antibody, red filled histogram) or a purified mouse IgG2b isotype control (black open histogram) at the same concentration, followed by Stemgent® DyLight™ 488 Goat anti-Mouse IgG + IgM Antibody (Cat. No. 09-0033).

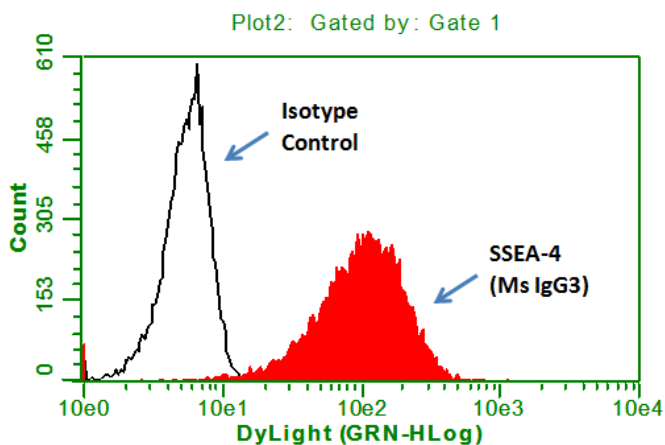


Figure 3—FC analysis of human SSEA-4 (mouse IgG3, surface marker). The human ES cell line H1 was stained with Stemgent® Purified Mouse anti-Human SSEA-4 Antibody (Cat. No. 09-0006, red filled histogram) or Stemgent® Purified Mouse IgG3, κ Isotype Control Antibody (Cat. No. 09-0008, black open histogram) at the same concentration, followed by Stemgent® DyLight™ 488 Goat anti-Mouse IgG + IgM Antibody (Cat. No. 09-0033).

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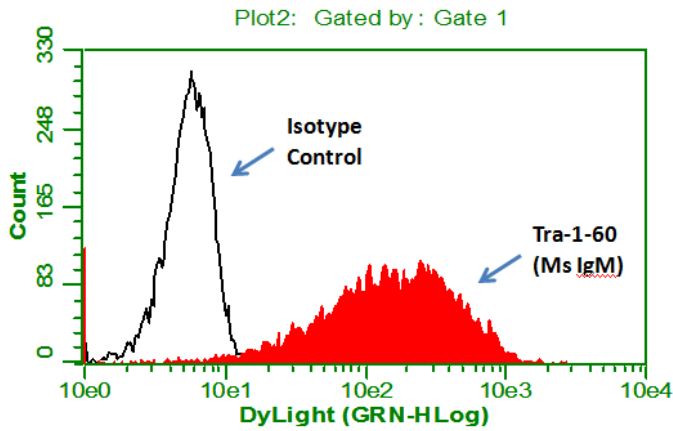


Figure 4—FC analysis of human Tra-1-60 (mouse IgM, surface marker). The human ES cell line H1 was stained with Stemgent® Purified Mouse anti-Human Tra-1-60 Antibody (Cat. No. 09-0010, red filled histogram) or Stemgent® Purified Mouse IgM, κ Isotype Control Antibody (Cat. No. 09-0007, black open histogram) at the same concentration, followed by Stemgent® DyLight™ 488 Goat anti-Mouse IgG + IgM Antibody (Cat. No. 09-0033).

Notice to Purchaser

Purchaser represents and warrants that it will use the Stemgent® DyLight™ 488 Goat anti-Mouse IgG + IgM Antibody purely for research purposes. This product is not intended for human or veterinary applications, or diagnostic use or resale. Stemgent will not be held responsible for patent infringement or other violations that may occur with the use of this product.

Related Products

1. Stemgent® Purified Mouse anti-Mouse SSEA-1 Antibody (Cat. No. 09-0005)
2. Stemgent® Purified Mouse anti-Human SSEA-4 Antibody (Cat. No. 09-0006)
3. Stemgent® Purified Mouse anti-Human Tra-1-60 Antibody (Cat. No. 09-0010)
4. Stemgent® Purified Mouse anti-Human Tra-1-81 Antibody (Cat. No. 09-0011)
5. Stemgent® Purified Mouse anti-Human CD29 Antibody (Cat. No. 09-0025)
6. Stemgent® Purified Mouse anti-Human CD34 Antibody (Cat. No. 09-0026)
7. Stemgent® Purified Mouse anti-Human CD45 Antibody (Cat. No. 09-0028)
8. Stemgent® Purified Mouse anti-Human CD90 Antibody (Cat. No. 09-0029)
9. Stemgent® Purified Mouse anti-Human CD105 Antibody (Cat. No. 09-0030)
10. Stemgent® Purified Mouse anti-Human CD166 Antibody (Cat. No. 09-0031)

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