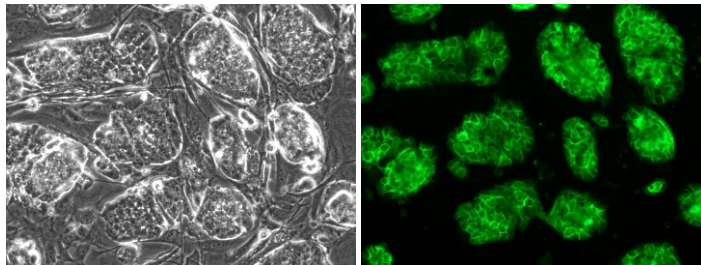


BioLite™ SSEA-1 (DyLight 488) anti-Human/Mouse Antibody

Catalog Number: ST11006

Size	100 µL
Concentration	0.5 mg/mL
Species Reactivity	Human, Mouse
Host	Mouse Monoclonal
Clone	MC-480
Isotype	IgM, κ
Immunogen	F9 tetracarcinoma stem cells (X-irradiated)
Formulation	0.2 µm filter sterilized phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test. Formulation is free from bacteria, fungi, and mycoplasma.
Storage and Stability	Store at 2-8°C protected from light. Stable for 6 months from date of receipt when stored as directed. The BioLite format contains no preservative and therefore must be handled under aseptic conditions.
Applications Tested	Immunofluorescence (IF) on live, unfixed mouse ES cells
Recommended Dilutions	Immunofluorescence 1:100 Flow Cytometry 1:100 It is recommended that the antibody be titrated for optimal performance for each application.



Immunofluorescent analysis of mouse ES cells. Phase contrast view of cells in culture and the same field of view after staining with BioLite SSEA-1 Antibody at a 1:100 dilution.

Description	BioLite surface markers allow for direct immunofluorescent staining of live, unfixed pluripotent stem cell populations. The antibodies undergo meticulous application testing and validation to ensure they are sterile, non-toxic, contain no sodium azide, and are free of culture pathogens. Colonies stained with BioLite antibodies are able to continue in culture with no adverse effect on proliferation and differentiation potential when compared to untreated cells.
Background	Stage-specific embryonic antigen-1 (SSEA-1) is a carbohydrate epitope expressed upon the surface of early mouse embryos, murine embryonal carcinoma (EC), murine embryonic stem (ES), and murine and human germ (EG) cells. No immunoreactivity is evident with undifferentiated human EC and ES cells. Differentiation of human EC results in an increase in SSEA-1 expression, while in the mouse expression is diminished. SSEA-1 is associated with cell adhesion, migration and differentiation.
Alternative Names	CD15, Stage-specific embryonic antigen 1
References	Brambrink, T., et al. (2008) Sequential expression of pluripotency markers during direct reprogramming of mouse somatic cells. <i>Cell Stem Cell</i> 2: 151-159. PMID: 18371436. Draper, J.S., et al. (2002) Surface antigens of human embryonic stem cells: changes upon differentiation in culture. <i>J Anat</i> 200: 249-258. PMID: 12033729.

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