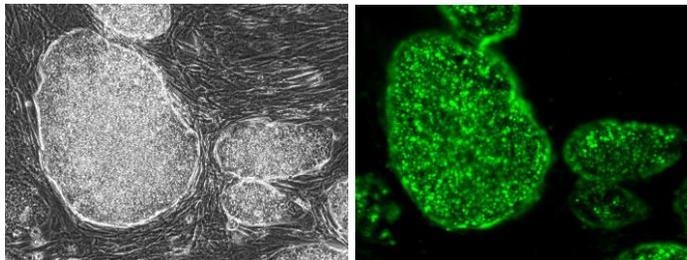


BioLite™ TRA-1-81 (DyLight 488) anti-Human Antibody

Catalog Number: ST11008

Size	100 µL	
Concentration	0.5 mg/mL	
Species Reactivity	Human	
Host	Mouse Monoclonal	
Clone	TRA-1-81	
Isotype	IgM, κ	
Immunogen	Human embryonal carcinoma cell line 2102Ep	
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 human 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 human iPS cells. Phase contrast view of cells in culture and the same field of view after staining with BioLite TRA-1-81 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	The TRA-1-81 antibody reacts with a pluripotent-stem-cell-specific antigen expressed on the surface of human embryonal carcinoma (EC), embryonic germ (EG), embryonic stem (ES), and induced pluripotent stem (iPS) cells. The expression of TRA-1-81 antigen is stage-specific; as human EC and ES cells undergo differentiation, expression of TRA-1-81 antigen is lost, making it a widely used marker to characterize human ES cells and to monitor their differentiation.
Alternative Names	Podocalyxin, MGC138240, PODXL, PCLP, PC, gp200
References	Andrews, P.W., et al. (1984) Three monoclonal antibodies defining distinct differentiation antigens associated with different high molecular weight polypeptides on the surface of human embryonal carcinoma cells. <i>Hybridoma</i> 3: 347-361. PMID: 6396197. Henderson, J.K., et al. (2002) Preimplantation human embryos and embryonic stem cells show comparable expression of stage-specific embryonic antigens. <i>Stem Cells</i> 20: 329-337. PMID: 12110702.

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