StemLight [™] P Marker Antibo 1 Kit (3 × 20 microlit For Research Use Only. Not for Product Includes	ters)		3 Tr Quantity	Orders: Support: Web:	Cell Signaling TECHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com Massachusetts 01923 USA	
SSEA4 (MC813) Mouse mAb		4755	20 µl	N/A kDa	Mouse IgG3	
TRA-1-60(S) (TRA-1-60(S)) Mouse mAb		4746	20 µl	200-400 kDa	Mouse IgM	
TRA-1-81 (TRA-1-81) Mouse mAb		4745	20 µl	200-400 kDa	Mouse IgM	
Description	The StemLight [®] Surface specifically expressed o pluripotent potential of h markers indicates a loss	component applications, species cross-reactivity, dilutions, protocols, and additional product information. The StemLight [®] Surface Marker Kit contains a panel of antibodies for the detection of antigens that are specifically expressed on the surface of human pluripotent cells. The kit can be used to track the pluripotent potential of human embryonic stem (ES) or induced pluripotent (iPS) cells. The loss of these markers indicates a loss of pluripotency or differentiation of the culture. The kit components are pre-optimized for parallel use in immunofluorescent analysis.				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Background	ectoderm, and mesoder induced pluripotent cells SSEA4, TRA-1-81, and pluripotent cells. SSEA4 antibodies recognize dif These epitopes are neu and TRA-1-60 antibodie	 Pluripotency is the ability of a cell to differentiate into cell types of the three germ layers, the endoderm, ectoderm, and mesoderm. It is a property shared by embryonic stem cells, embryonic carcinoma, and induced pluripotent cells. SSEA4, TRA-1-81, and TRA-1-60 antibodies recognize antigens expressed on the cell surface of all pluripotent cells. SSEA4 recognizes a glycolipid carbohydrate epitope (1). TRA-1-60(S) and TRA-1-81 antibodies recognize different proteoglycan epitopes on variants of the same protein, podocalyxin (2). These epitopes are neuraminidase sensitive and resistant, respectively. Reactivity of SSEA4, TRA-1-81 and TRA-1-60 antibodies with their respective cell surface markers are lost upon differentiation of pluripotent cells, corresponding with a loss of pluripotent potential (3). 				
Background References	2. Draper, J.S. et al. (200	 Henderson, J.K. et al. (2002) Stem Cells 20, 329-37. Draper, J.S. et al. (2002) J Anat 200, 249-58. Schopperle, W.M. and DeWolf, W.C. (2007) Stem Cells 25, 723-30. 				
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