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SSEA4 (MC813) Mouse mAb (Alexa Fluor® 647 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
IF-IC, FC-FP	H	Endogenous	Mouse IgG3
Product Usage Information	Application		Dilution
	Immunofluorescence (Immunocytochemistry)		1:100
	Flow Cytometry (Fixed/Permeabilized)		1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.		
Specificity/Sensitivity	SSEA4 (MC813) Mouse mAb (Alexa Fluor® 647 Conjugate) detects endogenous levels of SSEA4 antigen.		
Source / Purification	Monoclonal antibody is produced by injecting animals with human embryonal carcinoma 2102Ep cl.2A6 cells.		
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated SSEA4 (MC813) Mouse mAb #4755.		
Background	SSEA4 (stage-specific embryonic antigen 4) is a glycolipid carbohydrate epitope expressed on the surface of human teratocarcinoma stem cells, human embryonic germ cells, and human embryonic stem cells (1). Expression of human SSEA4 decreases following differentiation of human embryonal carcinoma cells. Expression of the SSEA4 antigen is absent in murine pluripotent cells, but increases following differentiation (1,2).		
Background References	<ol style="list-style-type: none"> Henderson, J.K. et al. (2002) <i>Stem Cells</i> 20, 329-37. Draper, J.S. et al. (2002) <i>J Anat</i> 200, 249-58. 		
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)		
Cross-Reactivity Key	H: Human		
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