

**HESCA-1 (HUMAN EMBRYONIC STEM CELL ANTIGEN-1)
MONOCLONAL ANTIBODY**

CATALOG NUMBER:	MAB4407	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	1 mg/mL
CLONE NAME:	051007-4A5	HOST/ISOTYPE:	Ms IgM _k
BACKGROUND:	The evolution of our understanding of pluripotent and adult stem cell biology requires specific research tools to permit the characterization, isolation, and expansion of stem cells. HESCA-1 is the first in a series of novel stem cell antibodies produced to provide scientists with those needed tools.		
SPECIFICITY:	This antibody is positive by immunofluorescence against H1, BG-01, BG01v, and BF02 human embryonic stem (hES) cell lines; however, it is unreactive for differentiated stem cells in teratomas and common feeder lines such as MEF, D-551, and Hs27. Reactivity with other hES lines has not yet determined.		
IMMUNOGEN:	Human Embryonic Stem Cells - BG01v		
APPLICATIONS:	Immunocytochemistry Immunohistochemistry Immunofluorescence Microscopy Flow Cytometry <i>Optimal working dilutions must be determined by the end user.</i>		
SPECIES REACTIVITY:	Human		
FORMAT:	Purified		
PRESENTATION:	Liquid in 0.02M PBS, 0.25 NaCl, pH 7.6 with 0.1% Sodium Azide		
STORAGE/HANDLING:	Maintain refrigerated at 2-8°C in undiluted aliquots for up to 12 months.		

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

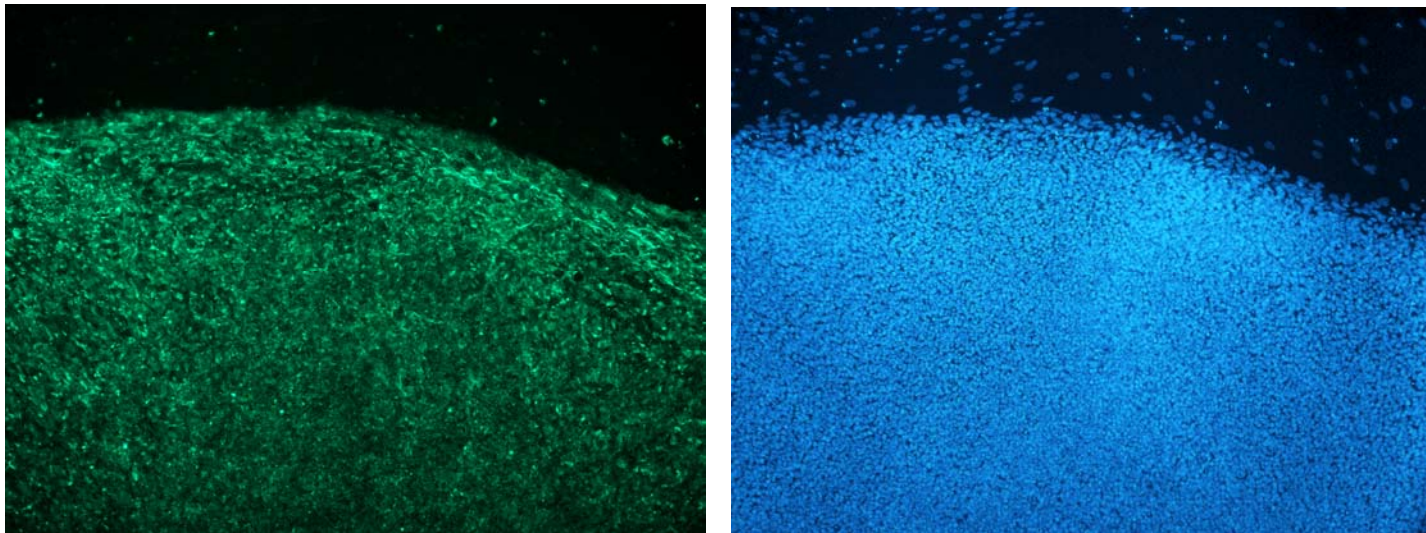


Figure 1. Human ES cells labeled with the HESCA-1 antibody (left, green) and DAPI (right, blue). Only pluripotent human ES cells are labeled with HESCA-1; note that the human feeder cells surrounding the human ES cells are not recognized by the antibody. Cells were labeled via indirect fluorescence using a fluorescein-conjugated goat anti-mouse secondary antibody.

For research use only; not for use as a diagnostic.

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